31IHSSF1045



DocumentID

NONCD0002873

Site Name

NELLO TEER QUARRY-DENFIELD

DocumentType

Remedial Action Plan (RAP)

RptSegment

1

DocDate

10/15/2001

DocRcvd

2/20/2007

Вох

SF1045

AccessLevel

PUBLIC

Division

WASTE MANAGEMENT

Section

SUPERFUND

Program

IHS (IHS)

DocCat

FACILITY

WITHERS & RAVENEL

ENGINEERS I PLANNERS I SURVEYORS

CORRECTIVE ACTION PLAN

15A NCAC Subchapter 2L .106 (c)

FORMER NELLO L. TEER ASPHALT PLANT #3 NC HIGHWAY 54 AND STATE ROAD 110 4 ORANGE COUNTY, NORTH CAROLINA

Groundwater Incident # 21750; Site Priority 40A

Facility ID #
Not Applicable

Responsible Party:

Hanson Aggregates East 2300 Gateway Centre Boulevard Morrisville, North Carolina (919) 380-2600

Current Property Owner:

Orange Water and Sewer Authority

Prepared for:

Orange Water and Sewer Authority 400 Jones Ferry Road Post Office Box 366 Carrboro, North Carolina 27510-0366 (919) 968-4421

Prepared by:

Withers & Ravenel Engineering & Surveying, Inc.
111 MacKenan Drive
Cary, North Carolina 27511
(919) 460-6006

Discovery Date: October 4, 1999 Cause of Release: Unknown

54.6"

Release Quantity: Unknown Source of Release: Unknown

Latitude: N 35° 55' 47.4" Longitude: W 79° 8'



Full Service Analytical & Environmental Solutions

8/30/01

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Patterson Exploration Services

Customer Project ID: NLTC-Carrboro

Dwayne Phillips

Customer Sample ID: E-2-6'

Prism Sample ID: AC17374

1907 Boone Trail Rd.

Login Group: AO827H25

Sanford, NC 27330

Sample Collection Date/Time: 8/23/01

16:00

Lab Submittal Date/Time: 8/25/01

09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/25/01 19:33	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 13:10	KC
OIL AND GREASE	200	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:





8/30/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC-Carrboro

Customer Sample ID: E-2-14-17'
Prism Sample ID: AC17375

Login Group: AO827H25

Sample Collection Date/Time: 8/23/01 16:00

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/25/01 20:15	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 13:47	KC
OIL AND GREASE	110	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: E-3, W-4.5
Prism Sample ID: AC17376

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 07:50 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST · PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	1500	mg/kg	1000	8015MOD/3550	8/26/01 14:19	GRR
OIL AND GREASE	1200	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: W-6, 5-4 Prism Sample ID: AC17377

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 08:00

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	590	mg/kg	100	8015MOD/3550	8/26/01 11:31	GRR
OIL AND GREASE	970	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



8/30/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro Customer Sample ID: W-6, FLOOR Prism Sample ID: AC17378

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01

10:15 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	860	mg/kg	500	8015MOD/3550	8/26/01 12:55	GRR
TPH-GASOLINE RANGE / PREP. 5030	73	mg/kg	25	8015MOD/5030	8/27/01 16:41	KC
OIL AND GREASE	1100	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	87	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC-Carrboro

Customer Sample ID: HN-1

Prism Sample ID: AC17379

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 12:10

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	940	mg/kg	500	8015MOD/3550	8/26/01 13:38	GRR
OIL AND GREASE	510	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330

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Customer Project ID: NLTC-Carrboro

Customer Sample ID: E-2, 12' Prism Sample ID: AC17380

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:20 09:15

Lab Submittal Date/Time: 8/25/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST
TOU DIFFEE DANIES				00/21/07/07		
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 01:06	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 15:00	KC
OIL AND GREASE	120	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Page 8 of 25

Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-1
Prism Sample ID: AC17381

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:00 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 01:48	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 15:37	кс
OIL AND GREASE	280	mg/kg	50	9071	8/28/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	66	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Page 9 of 25

Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-2 Prism Sample ID: AC17382

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:00

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 02:30	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 16:14	KC
OIL AND GREASE	110	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-3
Prism Sample ID: AC17383

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:03 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 03:10	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 16:50	КС
OIL AND GREASE	Less than	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	68	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-Carrboro

Dwayne Phillips

Customer Sample ID: HNB-4
Prism Sample ID: AC17384

1907 Boone Trail Rd.

Prism Sample ID: AC17384

Sanford, NC 27330

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01

01 15:04

Lab Submittal Date/Time: 8/25/01

/01 15:04 /01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 03:51	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 17:27	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-5

Prism Sample ID: AC17385

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:06

Lab Submittal Date/Time: 8/25/01

09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 04:32	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 18:04	KC
OIL AND GREASE	140	. mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-6

Prism Sample ID: AC17386

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:08

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 05:14	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 18:41	KC
OIL AND GREASE	71	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed .			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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15:10

Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-7

Prism Sample ID: AC17387

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 05:54	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 19:17	KC
OIL AND GREASE	92	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	70	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-8 Prism Sample ID: AC17388

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:12 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	190	mg/kg	100	8015MOD/3550	8/26/01 12:13	GRR
TPH-GASOLINE RANGE / PREP. 5030	21	mg/kg	5	8015MOD/5030	8/25/01 19:54	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: HNB-9 Prism Sample ID: AC17389

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:14 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	1600	mg/kg	1000	8015MOD/3550	8/26/01 15:01	GRR
TPH-GASOLINE RANGE / PREP. 5030	44	mg/kg	10	8015MOD/5030	8/27/01 17:19	КС
OIL AND GREASE	470	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	69	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-Carrboro

Dwayne Phillips

Customer Sample ID: 2N1'A@6'

1907 Boone Trail Rd.

Prism Sample ID: AC17390

Sanford, NC 27330

Login Group: AO827H25

15:30

Sample Collection Date/Time: 8/24/01

09:15

Lab Submittal Date/Time: 8/25/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 07:58	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 21:07	KC
OIL AND GREASE	90	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: 2SR@6'

Prism Sample ID: AC17391

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01

Lab Submittal Date/Time: 8/25/01 09:15

15:35

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
				TILL ETTETTOL	OMMILE	ANALIOI
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 08:41	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/25/01 21:44	КС
OIL AND GREASE	Less than	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: 2N1@10-11' Prism Sample ID: AC17392

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:40

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST , PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	27	mg/kg	10	8015MOD/3550	8/26/01 10:09	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/27/01 20:27	кс
OIL AND GREASE	150	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



Full Service Analytical & Environmental Solutions

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Customer Project ID: NLTC-Carrboro

Patterson Exploration Services

Customer Sample ID: 2E10@10'

Dwayne Phillips

Prism Sample ID: AC17393

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01

15:40

Lab Submittal Date/Time: 8/25/01

09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/26/01 10:49	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/27/01 21:05	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/28/01 16:15	GRR
CALCULATIONS BASED ON DRY WT.	86 .	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-Carrboro

Dwayne Phillips

Customer Sample ID: 2E9@6' Prism Sample ID: AC17394

1907 Boone Trail Rd.

Sanford, NC 27330

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01

15:45

Lab Submittal Date/Time: 8/25/01

09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/26/01 19:11	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/27/01 21:42	кс
OIL AND GREASE	110	mg/kg	50	9071	8/29/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	86	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 11:00	JLW

Sample Comments:



8/30/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: 2E2/E3@6'

Prism Sample ID: AC17395

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:48

Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/26/01 19:52	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/27/01 22:19	кс
OIL AND GREASE	90	mg/kg	50	9071	8/29/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 11:00	JLW

Sample Comments:



8/30/01

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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: 2W8@17' Prism Sample ID: AC17396

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:52 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/26/01 20:34	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/27/01 22:56	КС
OIL AND GREASE	130	mg/kg	50	9071	8/29/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 11:00	JLW

Sample Comments:



8/30/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC-Carrboro

Customer Sample ID: 2W8@7' Prism Sample ID: AC17397

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 15:52 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/26/01 22:40	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/27/01 23:33	KC
OIL AND GREASE	230	mg/kg	50	9071	8/29/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550	8/25/01 11:00	JLW

Sample Comments:



8/30/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC-Carrboro

Customer Sample ID: 2W6@15'
Prism Sample ID: AC17398

Login Group: AO827H25

Sample Collection Date/Time: 8/24/01 16:00 Lab Submittal Date/Time: 8/25/01 09:15

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/26/01 23:21	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/28/01 00:10	кс
OIL AND GREASE	120	mg/kg	50	9071	8/29/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	70	% DRY WT.	0.01	SM 2540 G	8/27/01 10:00	JMV
PREP. METHOD 3550	Completed	-		SW846-3550	8/25/01 11:00	JLW

Sample Comments:

Full Service Analytica Client ATTERSON Physical Address Phone P.O.#Billing Reference Project Name	Explosion 1800 1800 1800 1800 1800 1800 1800 180	ntal Solutions	}	PAGE	Springb Box 240 ne: 704/ TO: Name Addre Name Addre d Due Date	rook Roa 0543 • 0 529-636 ss	d A Charlott Charlotte, NC	e, NC 2 28224 4/525 5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5	28217 -0543 -0409 	7440 p	PROPER Received CUSTOD VOLATILE PROPER State Cert Requester Water Chl Sample Ic CMUD	ON WET 16 PRESERW WITHIN HE STRE'S IN CONTAINE Ification I FL prinated ed Upon C	OUT HEADSPAĆE? PS used? NC SC Yes No	Other Nes No OTHER	A o R	N/A
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OTHER *CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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FINAL REPORT COPY

SEE REVERSE FOR TERMS & CONDITIONS

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CHAIN OF CUTODY RECORD

Full Service Analytical & Environmental Solutions Client Patterson Exploration Physical Address 1901 Boone Trail Rd Physical Address 2700 Fax Phone P.O.#Billing Reference Project Name Project Name				PAGE OF QUOTE # 449 Springbrook Road Charlotte, NC 28217 P.O. Box 240543 Charlotte, NC 28224-0543 Phone: 704/529-6364 Fax: 704/525/0409 BEPORT TO: Name Address BILL TO: Name Address Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days 06-9 Days Standard 10 days Samples received after 15:00 will be processed the next business day. Turnaround time is based on business days, excluding weekends and holidays. (SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)						Requested FL NC SC Other NA Water Chlorinated Yes No NA Sample Iced Upon Collection Yes No CMUD NPDES OTHER							
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*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

FINAL REPORT COPY



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CHAIN OF CUTODY RECORD

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LAB USE ONLY

Samples INTACT upon arrival?



8/22/01

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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC Excavation

Customer Sample ID: S-1, 6

Prism Sample ID: AC16138

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

13/01 08:50

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/17/01 11:49	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/15/01 20:50	KC .
OIL AND GREASE	170	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 12:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Page 2 of 89

Customer Project ID: NLTC Excavation

Customer Sample ID: S-1A, 15
Prism Sample ID: AC16139

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 08:55
Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/17/01 12:32	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/15/01 21:27	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	64	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 12:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

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8/22/01

Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: S-2,6

1907 Boone Trail Rd.

Prism Sample ID: AC16140

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

09:00

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/17/01 13:13	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/15/01 22:04	KC
OIL AND GREASE	250	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 12:00	JLW

Sample Comments:



8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: S-2A, 11

1907 Boone Trail Rd. Sanford, NC 27330

Prism Sample ID: AC16141

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

09:05

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/17/01 13:56	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/15/01 22:41	КС
OIL AND GREASE	110	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 12:00	JLW

Sample Comments:



8/22/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC Excavation

Customer Sample ID: S-3, 6 Prism Sample ID: AC16142

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

09:10

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 14:37	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/15/01 23:18	KC
OIL AND GREASE	130	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 12:00	JLW

Sample Comments:



8/22/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC Excavation

Customer Sample ID: S-3A, 14
Prism Sample ID: AC16143

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 09:15 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 15:19	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/15/01 23:54	KC
OIL AND GREASE	190	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	93	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: S-4, 6

Prism Sample ID: AC16144

1907 Boone Trail Rd.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

09:20

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 16:00	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 00:31	KC
OIL AND GREASE	620	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	72	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: S-5, 6.5
Prism Sample ID: AC16145

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 09:25 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 16:43	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 01:08	КС
OIL AND GREASE	84	mg/kg	50	9071	8/15/01 18:00	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SE, 6.5 Prism Sample ID: AC16146

1907 Boone Trail Rd.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

09:30 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 17:24	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 16:04	KC
OIL AND GREASE	110	mg/kg	50	9071	8/16/01 12:00	GRR
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SE, 14

1907 Boone Trail Rd.

Prism Sample ID: AC16147

Lab Submittal Date/Time: 8/15/01

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

09:35 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 18:07	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 16:42	KC
OIL AND GREASE	150	mg/kg	50	9071	8/16/01 12:00	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-1, 6

Prism Sample ID: AC16148

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

09:40 10:00

Lab Submittal Date/Time: 8/15/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

		**********				***
TEST	TEST		REPORTING	METHOD	DATE/TIME	ANIALVOT
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 18:49	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 17:19	KC
OIL AND GREASE	74	mg/kg	50	9071	8/16/01 12:00	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-1A, 10 Prism Sample ID: AC16149

1907 Boone Trail Rd.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

09:45 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 19:30	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 17:57	KC
OIL AND GREASE	200	mg/kg	50	9071	8/20/01 12:30	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-2, 5

1907 Boone Trail Rd.

Prism Sample ID: AC16150

Sanford, NC 27330

Login Group: AO817H89

09:50

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 20:12	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 18:34	KC
OIL AND GREASE	170	mg/kg	50	9071	8/16/01 12:00	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-2, 10

Prism Sample ID: AC16151

1907 Boone Trail Rd.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

09:55

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 20:54	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 20:27	KC
OIL AND GREASE	130	mg/kg	50	9071	8/16/01 12:00	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-2B, 19

Prism Sample ID: AC16152

1907 Boone Trail Rd.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

10:00 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 21:37	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 21:04	KC
OIL AND GREASE	380	mg/kg	50	9071	8/16/01 12:00	GRR
CALCULATIONS BASED ON DRY WT.	62	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E2/E3, 6

1907 Boone Trail Rd.

Prism Sample ID: AC16153

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

10:05

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 22:18	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 21:40	KC
OIL AND GREASE	260	mg/kg	50	9071	8/16/01 12:00	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	. JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E3/E4, 6.5

1907 Boone Trail Rd.

Prism Sample ID: AC16154

Sanford, NC 27330

Login Group: AO817H89

10:10

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 00:24	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 22:17	кс
OIL AND GREASE	160	mg/kg	50	9071	8/16/01 10:00	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E4/E5, 6

1907 Boone Trail Rd.

Prism Sample ID: AC16155

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

3/01 10:15

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 01:06	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 22:54	KC
OIL AND GREASE	120	mg/kg	50	9071	8/16/01 10:00	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/16/01 17:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-5, 6

1907 Boone Trail Rd.

Prism Sample ID: AC16156

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

10:20

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT ·	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 05:17	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/16/01 23:31	KC
OIL AND GREASE	150	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-6, 6

1907 Boone Trail Rd.

Prism Sample ID: AC16157

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

10:25

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 05:58	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 00:07	KC
OIL AND GREASE	110	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC Excavation

Customer Sample ID: E-7, 5.5
Prism Sample ID: AC16158

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 10:30

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 06:40	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 11:05	KC
OIL AND GREASE	98	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-8, 7

1907 Boone Trail Rd.

Prism Sample ID: AC16159

1907 Doone Hall Ru.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

10:35 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 07:22	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 11:42	KC
OIL AND GREASE	140	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	70	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-9, 5

1907 Boone Trail Rd.

Prism Sample ID: AC16160

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

10:40

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 08:03	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 12:18	кс
OIL AND GREASE	110	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-9, 13

Prism Sample ID: AC16161

1907 Boone Trail Rd.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

10:45

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 08:45	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 12:55	КС
OIL AND GREASE	79	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: E-10, 5.5

1907 Boone Trail Rd. Sanford, NC 27330

Prism Sample ID: AC16162

Login Group: AO817H89 Sample Collection Date/Time: 8/13/01

10:50

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 09:27	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 13:32	KC
OIL AND GREASE	120	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Page 26 of 89

Customer Project ID: NLTC Excavation

Customer Sample ID: E-10A, 12
Prism Sample ID: AC16163

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 10:55 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 13:49	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 14:10	KC
OIL AND GREASE	410	mg/kg	50	9071	8/16/01 16:00	JDP
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC Excavation

Customer Sample ID: B-23

Prism Sample ID: AC16164

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

11:00

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 14:31	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 14:49	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	69	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-1, 6 Prism Sample ID: AC16165

1907 Boone Trail Rd.

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

11:05

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	20000	mg/kg	1000	8015MOD/3550	8/18/01 11:43	GRR
TPH-GASOLINE RANGE / PREP. 5030	310	mg/kg	50	8015MOD/5030	8/18/01 12:54	KC
OIL AND GREASE	17000	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-1A, 11.5

1907 Boone Trail Rd.

Prism Sample ID: AC16166

Sanford, NC 27330

Login Group: AO817H89

11:10

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	1400	mg/kg	200	8015MOD/3550	8/19/01 11:04	GRR
TPH-GASOLINE RANGE / PREP. 5030	15	mg/kg	10	8015MOD/5030	8/17/01 16:05	кс
OIL AND GREASE	1200	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-2, 6

1907 Boone Trail Rd.

Prism Sample ID: AC16167

Sanford, NC 27330

Login Group: AO817H89

11:15

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 15:13	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 16:42	кс
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-2, 10.5

1907 Boone Trail Rd.

Prism Sample ID: AC16168

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

11:20

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 15:55	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 17:20	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-3, 6

1907 Boone Trail Rd.

Prism Sample ID: AC16169

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 Lab Submittal Date/Time: 8/15/01 11:25 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 16:37	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 19:13	КС
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	70	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-3, 12

1907 Boone Trail Rd.

Prism Sample ID: AC16170

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

140/04

Lab Submittal Date/Time: 8/15/01

/01 11:30 /01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 17:19	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 19:50	KC
OIL AND GREASE	59	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-4, 5.5

1907 Boone Trail Rd.

Prism Sample ID: AC16171

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

11:35

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 18:00	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 20:28	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 11:15	JDP
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: N-5, 6 Prism Sample ID: AC16172

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

11:40

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 18:44	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 21:05	кс
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	70	% DRY WT.	0.01	SM 2540 G	8/14/01 16:35	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC Excavation

Customer Sample ID: N-6,6 Prism Sample ID: AC16173

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 11:45

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 19:27	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 21:43	KC
OIL AND GREASE	87	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	69	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

oration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC Excavation

Customer Sample ID: NW, 5.5

Prism Sample ID: AC16174

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

11:50 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 20:08	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 22:20	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC Excavation

Customer Sample ID: W-3,6

Prism Sample ID: AC16175

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 11:55

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/18/01 20:50	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 22:57	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/17/01 11:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-4, 7

1907 Boone Trail Rd.

Prism Sample ID: AC16176

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

12:00

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 02:30	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/17/01 23:34	кс
OIL AND GREASE	120	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-5, 6

Prism Sample ID: AC16177

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

12:05 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 03:13	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/18/01 14:07	кс
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-5A, 11

1907 Boone Trail Rd.

Prism Sample ID: AC16178

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

12:10 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 03:56	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/18/01 14:44	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-5B, 15

1907 Boone Trail Rd.

Prism Sample ID: AC16179

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 Lab Submittal Date/Time: 8/15/01 12:15 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 04:39	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/18/01 15:21	KC
OIL AND GREASE	51	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC Excavation

Customer Sample ID: W-6, 7

Prism Sample ID: AC16180

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 12:20

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 05:23	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/18/01 15:58	кс
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-6A, 15

1907 Boone Trail Rd.

Prism Sample ID: AC16181

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 Lab Submittal Date/Time: 8/15/01

12:25 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TECT		DEDODTING	METHOD	DATE/TIME	
RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST
Less than	mg/kg	20	8015MOD/3550	8/19/01 06:06	GRR
Less than	mg/kg	1.0	8015MOD/5030	8/18/01 16:35	KC
250	mg/kg	50	9071	8/17/01 16:00	JMK
73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
Completed			SW846-3550	8/18/01 08:30	JLW
	Less than Less than 250 73	RESULT UNITS Less than mg/kg Less than mg/kg 250 mg/kg 73 % DRY WT.	RESULT UNITS LIMIT Less than mg/kg 20 Less than mg/kg 1.0 250 mg/kg 50 73 % DRY WT. 0.01	RESULT UNITS LIMIT REFERENCE Less than mg/kg 20 8015MOD/3550 Less than mg/kg 1.0 8015MOD/5030 250 mg/kg 50 9071 73 % DRY WT. 0.01 SM 2540 G	RESULT UNITS LIMIT REFERENCE STARTED Less than mg/kg 20 8015MOD/3550 8/19/01 06:06 Less than mg/kg 1.0 8015MOD/5030 8/18/01 16:35 250 mg/kg 50 9071 8/17/01 16:00 73 % DRY WT. 0.01 SM 2540 G 8/16/01 21:00

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-7,7

Prism Sample ID: AC16182

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

12:30

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 06:48	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 19:48	KC
OIL AND GREASE	150	mg/kg	50	9071	8/20/01 12:30	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-7,13

Prism Sample ID: AC16183

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

12:35

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 07:31	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/18/01 17:49	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/17/01 16:00	JMK
CALCULATIONS BASED ON DRY WT.	91	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: W-8,7

Prism Sample ID: AC16184

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 12:38 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 08:13	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/18/01 18:25	KC
OIL AND GREASE	250	mg/kg	50	9071	8/20/01 12:30	GRR
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-8, 12

1907 Boone Trail Rd.

Prism Sample ID: AC16185

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

12:40

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 08:55	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/18/01 19:02	кс
OIL AND GREASE	230	mg/kg	50	9071	8/20/01 12:30	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: W-8, 18.5

1907 Boone Trail Rd.

Prism Sample ID: AC16186

Sanford, NC 27330

Login Group: AO817H89

12:42

Sample Collection Date/Time: 8/13/01 Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	2500	mg/kg	500	8015MOD/3550	8/19/01 13:15	GRR
TPH-GASOLINE RANGE / PREP. 5030	210	mg/kg	100	8015MOD/5030	8/20/01 11:43	KC
OIL AND GREASE	680	mg/kg	50	9071	8/20/01 12:30	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: TP-1

Prism Sample ID: AC16187

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 12:45
Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	30	8015MOD/3550	8/17/01 05:00	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 12:20	KC
CALCULATIONS BASED ON DRY WT.	86	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-6

Prism Sample ID: AC16188

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 16:55

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 12:57	кс
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-7

Lab Submittal Date/Time: 8/15/01

Prism Sample ID: AC16189

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 16:58

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 13:34	KC
CALCULATIONS BASED ON DRY WT.	68	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-8

Prism Sample ID: AC16190

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 17:00

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	1.1	mg/kg	1.0	8015MOD/5030	8/21/01 01:20	кс
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-9

Prism Sample ID: AC16191

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 17:05 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 14:49	кс
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-10

1907 Boone Trail Rd.

Prism Sample ID: AC16192

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

17:10

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 15:26	KC
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-11

Prism Sample ID: AC16193

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 17:12 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 16:04	KC
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-12

1907 Boone Trail Rd.

Prism Sample ID: AC16194

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

10/01 17:15

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 11:13	KC
CALCULATIONS BASED ON DRY WT.	70	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-13

Prism Sample ID: AC16195

1907 Boone Trail Rd.

Login Group: AO817H89

Sanford, NC 27330

Sample Collection Date/Time: 8/10/01 Lab Submittal Date/Time: 8/15/01

17:20 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	530	mg/kg	10	8015MOD/3550	8/17/01 01:34	GRR
TPH-GASOLINE RANGE / PREP. 5030	79	mg/kg	50	8015MOD/5030	8/21/01 11:50	кс
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-14

Prism Sample ID: AC16196

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

Lab Submittal Date/Time: 8/15/01

17:25 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST
TPH - DIESEL RANGE	52	mg/kg	10	8015MOD/3550	8/17/01 00:10	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 17:56	KC
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

1907 Boone Trail Rd.

Sanford, NC 27330

Dwayne Phillips

Customer Sample ID: B-15

Prism Sample ID: AC16197

Login Group: AO817H89

Customer Project ID: NLTC Excavation

Sample Collection Date/Time: 8/10/01 17:30 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	30	8015MOD/3550	8/17/01 00:52	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 20:26	KC
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: TP-2

1907 Boone Trail Rd.

Prism Sample ID: AC16198

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

12:50 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	34000	mg/kg	1000	8015MOD/3550	8/17/01 07:04	GRR
CALCULATIONS BASED ON DRY WT.	72	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: TP-3

Prism Sample ID: AC16199

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

Lab Submittal Date/Time: 8/15/01

12:55 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	26000	mg/kg	1000	8015MOD/3550	8/17/01 06:22	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

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Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: LH-1

Prism Sample ID: AC16200

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 13:00

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/16/01 12:19	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 21:03	KC
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: LH-2

Prism Sample ID: AC16201

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 13:05

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/16/01 13:01	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 22:54	кс
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

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Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: LH-3

Prism Sample ID: AC16202

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01 13:10

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/16/01 13:42	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/20/01 23:30	КС
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: LH-4

1907 Boone Trail Rd.

Prism Sample ID: AC16203

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/13/01

13:15

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	8/16/01 14:25	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 12:27	кс
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

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Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-2

Prism Sample ID: AC16204

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

16:30

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 00:44	KC
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-3

1907 Boone Trail Rd.

Prism Sample ID: AC16205

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

16:35

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 13:04	кс
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-4

Prism Sample ID: AC16206

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 16:40

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 13:41	кс
CALCULATIONS BASED ON DRY WT.	67	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-5

Prism Sample ID: AC16207

Lab Submittal Date/Time: 8/15/01

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

16:45 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 14:18	кс
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-16

1907 Boone Trail Rd.

Prism Sample ID: AC16208

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

10:00

Lab Submittal Date/Time: 8/15/01

17:39

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	100	mg/kg	50	8015MOD/3550	8/17/01 02:15	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/22/01 00:45	кс
CALCULATIONS BASED ON DRY WT.	85	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00 '	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-17

1907 Boone Trail Rd.

Prism Sample ID: AC16209

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

17:40

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 02:57	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 15:32	KC
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-18

1907 Boone Trail Rd.

Prism Sample ID: AC16210

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

17:45

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/17/01 03:38	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 16:10	KC
CALCULATIONS BASED ON DRY WT.	85	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-19

1907 Boone Trail Rd.

Prism Sample ID: AC16211

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

17:50

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	1700	mg/kg	100	8015MOD/3550	8/17/01 09:08	GRR
TPH-GASOLINE RANGE / PREP. 5030	21	mg/kg	5	8015MOD/5030	8/22/01 04:24	KC
CALCULATIONS BASED ON DRY WT.	67	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-20

1907 Boone Trail Rd.

Prism Sample ID: AC16212

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

17:55

Lab Submittal Date/Time: 8/15/01

1 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	270	mg/kg	10	8015MOD/3550	8/16/01 20:40	GRR
TPH-GASOLINE RANGE / PREP. 5030	8.8	mg/kg	1.0	8015MOD/5030	8/21/01 17:24	кс
CALCULATIONS BASED ON DRY WT.	58	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Dwayne Phillips

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Sanford, NC 27330

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Customer Project ID: NLTC Excavation

Customer Sample ID: B-21

Prism Sample ID: AC16213

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 18:00

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	450	mg/kg	100	8015MOD/3550	8/17/01 09:49	GRR
TPH-GASOLINE RANGE / PREP. 5030	38	mg/kg	10	8015MOD/5030	8/22/01 08:37	KC
CALCULATIONS BASED ON DRY WT.	85	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: B-22

1907 Boone Trail Rd.

Prism Sample ID: AC16214

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

0/01 18

Lab Submittal Date/Time: 8/15/01

18:05 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	230	mg/kg	10	8015MOD/3550	8/17/01 05:41	GRR
TPH-GASOLINE RANGE / PREP. 5030	3.0	mg/kg	1.0	8015MOD/5030	8/21/01 19:52	кс
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-1

1907 Boone Trail Rd.

Prism Sample ID: AC16215

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

10:15

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/16/01 22:04	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 20:29	КС
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-2

1907 Boone Trail Rd.

Prism Sample ID: AC16216

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

)/01 10:20

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/16/01 22:46	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 21:06	KC
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-3

1907 Boone Trail Rd.

Prism Sample ID: AC16217

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

10:25

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/16/01 23:28	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	Less than mg/kg		8015MOD/5030	8/21/01 21:43	кс
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/15/01 15:00	JMV

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-4

Prism Sample ID: AC16218

1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

Lab Submittal Date/Time: 8/15/01

10:30 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST GRR	
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 11:46		
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 22:19	кс	
OIL AND GREASE	100	mg/kg	50	9071	8/20/01 12:30	GRR	
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR	
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW	

Sample Comments:

8/22/01



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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-5

1907 Boone Trail Rd.

Prism Sample ID: AC16219

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

10:35

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 12:33	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 22:56	КС
OIL AND GREASE	97	mg/kg	50	9071	8/20/01 12:30	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/18/01 08:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-6

Lab Submittal Date/Time: 8/15/01

1907 Boone Trail Rd.

Prism Sample ID: AC16220

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

10:40

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT UNITS		REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 17:30	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/21/01 23:32	KC
OIL AND GREASE	100	mg/kg	50	9071	8/20/01 12:30	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/19/01 10:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

Page 84 of 89

Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-7

1907 Boone Trail Rd.

Prism Sample ID: AC16221

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 Lab Submittal Date/Time: 8/15/01 10:45

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	= :		METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 18:13	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/22/01 00:09	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/20/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/19/01 10:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

Patterson Exploration Services

Dwayne Phillips

1907 Boone Trail Rd.

Sanford, NC 27330

Page 85 of 89

Customer Project ID: NLTC Excavation

Customer Sample ID: SW-8

Prism Sample ID: AC16222

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 10:50

Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME		
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST	
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 18:55	GRR	
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/22/01 01:22	KC	
OIL AND GREASE	Less than	mg/kg	50	9071	8/20/01 17:30	GRR	
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR	
PREP. METHOD 3550	Completed			SW846-3550	8/19/01 10:00	JLW	

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-9

1907 Boone Trail Rd.

Prism Sample ID: AC16223

Sanford, NC 27330

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01

0/01 10:55

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	. —		METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 19:38	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/22/01 01:58	кс
OIL AND GREASE	Less than	mg/kg	50	9071	8/20/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	70	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/19/01 10:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

8/22/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: NLTC Excavation

Customer Sample ID: SW-10

Prism Sample ID: AC16224

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 11:00 Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT UNITS		REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST	
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 20:20	GRR	
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/22/01 02:35	КС	
OIL AND GREASE	Less than	mg/kg	50	9071	8/20/01 17:30	GRR	
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR	
PREP. METHOD 3550	Completed			SW846-3550	8/19/01 10:00	JLW	

Sample Comments:



8/22/01

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Patterson Exploration Services

Customer Project ID: NLTC Excavation

Dwayne Phillips

Customer Sample ID: SW-11

1907 Boone Trail Rd.

Prism Sample ID: AC16225

Login Group: AO817H89

Sanford, NC 27330

11:05

Sample Collection Date/Time: 8/10/01

Lab Submittal Date/Time: 8/15/01

10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST	
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 21:03	GRR	
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/22/01 03:11	KC	
OIL AND GREASE	Less than	mg/kg	50	9071	8/20/01 17:30	GRR	
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR	
PREP. METHOD 3550	Completed			SW846-3550	8/19/01 10:00	JLW	

Sample Comments:



8/22/01

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Patterson Exploration Services

Dwayne Phillips 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: NLTC Excavation

Customer Sample ID: SW-12
Prism Sample ID: AC16226

Login Group: AO817H89

Sample Collection Date/Time: 8/10/01 11:10
Lab Submittal Date/Time: 8/15/01 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	20	8015MOD/3550	8/19/01 21:46	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	8/22/01 03:47	KC
OIL AND GREASE	Less than	mg/kg	50	9071	8/20/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	8/16/01 21:00	GRR
PREP. METHOD 3550	Completed			SW846-3550	8/19/01 10:00	JLW

Sample Comments:



Method of Shipment

CHAIN OF CUSTODY RECORD LAB USE ONLY PAGE OF QUOTE # NO Samples INTACT upon arrival? 449 Springbrook Road A Charlotte, NC 28217 Received ON-WET ICE? Temp P.O. Box 240543 A Charlotte, NC 28224-0543 PROPER PRESERVATIVES indicated? Phone: 704/529-6364 A Fax: 704/525-0409 Received WITHIN HOLDING TIMES? Full Service Analytical & Environmental Solutions CUSTODY SEALS INTACT? **VOLATILES rec'd W/OUT HEADSPACE?** PRESS DOWN FIRMLY - 3 COPIES PROPER CONTAINERS used? DUMPLE Phillips 1901 Boone Trail Road P.O. Box Soos /Juntord State Certification 27330 NC ____SC ___ Other___NA Requested BILL TO: 414-774-3510 Water Chlorinated ____ No __ NA .__ P.O.#/Billing Reference Requested Due Date Sample Iced Upon Collection Yes No _ Execustion Project Náme (SEE REVERSE SIDE FOR RUSH TURNAROUND FEES) TIME MATRIX ANALYSES REQUESTED SAMPLE CONTAINER SUB CLIENT DATE COLLECTED (SOIL, PRISM PRESERVA-LAB SAMPLE DESCRIPTION COLLECTED MILITARY WATER OR LAB *TYPE TIVES REMARKS CERT. NO. SIZE HOURS SLUDGE) ID NO. SEE BELOW ID NO. 8/13/01 850 Soil 402 16138 855 16139 400 16140 905 16141 410 16142 16143 16146 16145 430 16146 OF Patterson Sampled By (Print Name) Affiliation Received By (Signature) Additional Comments Received By: (Signature) Relinquished By: (Signature) Received For Prism Laboratories By:

NPDES GROUNDWATER: DRINKING WATER: NC _____ SOLID WASTE: OTHER _ OTHER___ OTHER ____ OTHER_ OTHER OTHER.

Log-In Group No. A0817H89:

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS



Full Service Analytical & Environmental Solutions

VOLATILES rec'd W/OUT HEADSPACE? PRESS DOWN FIRMLY - 3 COPIES PROPER CONTAINERS used? DUNINE Phillips PO Box 3000 Mantord REPORT TO: Name State Certification Requested BILL TO: Name. Water Chlorinated Address P.O.#/Billing Reference Sample Iced Upon Collection Requested Due Date EXMUSTION Project Name (SEE REVERSE SIDE FOR RUSH TURNAROUND FEES) ANALYSES REQUESTED TIME MATRIX SUB SAMPLE CONTAINER PRISM CLIENT DATE COLLECTED (SOIL, PRESERVA-LAB LAB SAMPLE DESCRIPTION COLLECTED MILITARY WATER OR TIVES REMARKS CERT. *TYPE ID NO. NO. SIZE HOURS SLUDGE) ID NO. SEE BELOW 940 Soil 16148 10 14149 16150 16151 1000 16152 V-6 1005 1010 1015 1020 1025 Sampled By (Print Name) Affiliation Additional Comments Military/Hours 48 hour torn Received By: (Signature) Relinquished By: (Signature) Received For Prism Laboratories By: Method of Shipment NPDES GROUNDWATER: DRINKING WATER: NC SOLID WASTE: OTHER_ OTHER_ OTHER_ OTHER ____ OTHER OTHER

CHAIN OF CUSTODY RECORD

449 Springbrook Road A Charlotte, NC 28217 P.O. Box 240543 A Charlotte, NC 28224-0543

Phone: 704/529-6364 A Fax: 704/525-0409

PAGE __ OF QUOTE #

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

LAB USE ONLY

Samples INTACT upon arrival?
Received ON WET ICE? Temp

CUSTODY SEALS INTACT?

PROPER PRESERVATIVES indicated?'
Received WITHIN HOLDING TIMES?

NO NA



Full Service Analytical & Environmental Solution

Client PHOSON Physical Address 190			S	REPORT	TO: Non	. Du	IRMLY - 3 CO	llint	,	_ ,,,	VOLATI	R CONTÁI	INTACT? N/OUT HEA NERS used		<u></u>	
Phone	- <u>3770</u> Fa	x 919-7	14 - S57		Nan Add	ne ress	Rux GIX	4:1ª	640rd 273:	—NC ≥1 —	Requeste Water Ch	d Iorinated	Yes.	SC Ot No Yes	_ NA	
P.O.#/Billing Reference Project Name	C Excau	votien		— Requeste —		te EVERSE SIDE	FOR RUSH TURN	IAROUNI	D FEES)		Janipie i	sea opon	·	163		
CLIENT	DATE	TIME COLLECTED	MATRIX (SOIL,	SAMPI	E CONT	AINER	PRESERVA-		~ /	ANALYSE	S REQUES	TED	/ /	············	SUB LAB	PRISM
SAMPLE DESCRIPTION	COLLECTED	MILITARY HOURS	WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	TIVES	7	ST A				/ 2	REMARKS	CERT. ID NO.	ID NO.
E-7, 5.5'	8/13/01	/030	Soil	6	1	407		~	V	V						16/58
E-8, 7'		1035						-	/	~						16150
E-9, 5'		1040						/	V	"						1/9/10/
E-9 13'		1045						V	V	w						1616
E-10, 5.5'		1050						V	·	~						16/10
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CHAIN OF CUSTODY RECORD

449 Springbrook Road _ Charlotte, NC 28217

P.O. Box 240543 A Charlotte, NC 28224-0543

Phone: 704/529-6364 A Fax: 704/525-0409

LAB USE ONLY

FINAL REPORT COPY

Samples INTACT upon arrival?

Received ON WET ICE? Temp 4

PROPER PRESERVATIVES indicated?
Received WITHIN HOLDING TIMES?



Full Service Analytical & Environmental Solutions

CHAIN OF CUSTODY RECORD

449 Springbrook Road 🔺 Charlotte, NC 28217 P.O. Box 240543 A Charlotte, NC 28224-0543 Phone: 704/529-6364 A Fax: 704/525-0409

PRESS DOWN FIRMLY - 3 COPIES	VOLATILES rec'd W/OUT HEADSPACE?
BILL TO: Name	State Certification Requested NC SC Other NA Water Chlorinated Yes No NA
Requested Due Date	Sample Iced Upon Collection Yes No
(SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)	

CLIENT	DATE	TIME COLLECTED	MATRIX (SOIL,	SAMPL	E CONTA	INER	PRESERVA-	/	$\Delta \Delta$	ANALYSE	S REQU	ESTED		/		SUB LAB	PRISM LAB
SAMPLE DESCRIPTION	COLLECTED	MILITARY HOURS	WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	TIVES	7	<u> </u>		} /	/	_		REMARKS	CERT. ID NO.	ID NO.
N-2 105'	8/13/01	1120	3011	6		402		~	V	~							16168
N-3. 6'	1	1125		1		1		V	V	·							16169
N-3 12'		1130	-					~	V	W							16170
N-4 5.5'		//35						w	~	54						ļ	16171
N-5 6'		1140						~	/								10172
N66'		1145						سي	-	~							16173
NW 5.5'		1150						w	~	Spare.						ļ	16174
N-3 6'		1155						~	~	·							16175
W-4 7'		1200						~		0		,			·		16176
W-5.6'	4	1205	4	4	7	4				·/						<u> </u>	1617:

W-5, 6		1205 🔻	W W	A		9"			
Sampler's Signature			Sampled By (Print N	lame) O.F. Po	SHeron III	Affiliation	•		
Relinguished By: (Signature)		Receive	(Signature)		Date 08/14/	Military/Hours	Additional Comments	ę	
Relinquished By: (Signature)	7		By: (Signature)		Date /		48 hour	turn	•
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Method of Shipment			/		Log-in Group	17489	· -		
NPDES /NC SC OTHER	UST: NC SC OTHER	GROUNDWATER	SCOTHER	DRINKING WATER:	NC SOL SC OTHER	S	ICOTHER: COLUMN OTHER:	NC SC OTHER	

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

LAB USE ONLY

Samples INTACT upon arrival?

CUSTODY SEALS INTACT?

Received ON WET ICE? Temp _ U./U

PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES?

CHAIN OF CUSTODY RECORD PAGE 5 OF QUOTE # LAB USE ONLY Samples INTACT upon arrival? 449 Springbrook Road A Charlotte, NC 28217 Received ON WET ICE? Temp P.O. Box 240543 A Charlotte, NC 28224-0543 PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES? Phone: 704/529-6364 A Fax: 704/525-0409 Full Service Analytical & Environmental Solutions CUSTODY SEALS INTACT? VOLATILES rec'd W/OUT HEADSPACE? PRESS DOWN FIRMLY - 3 COPIES PROPER CONTAINERS used? REPORT TO: Name State Certification Requested BILL TO: Water Chlorinated Address Sample Iced Upon Collection P.O.#/Billing Reference Requested Due Date

Project Name	C t	X/\(\)	isnen_		_	_	(SEE RE	VERSE S	IDE FOR RU	JSH TURN	AROUNE	FEES)			•				5	•	
CLIENT	DAT	E	TIME COLLECTED	MATR (SOIL		SAMF	PLE CONTA	AINER	PRE	SERVA-	- /	$\frac{1}{2}$	ANALYS	ES REQ	JESTED	· . /	/			SUB LAB	PRISM LAB
SAMPLE DESCRIPTION	COLLEG	CTED	MILITARY HOURS	WATER SLUDG		*TYPE SEE BELOW	NO.	SIZE	Т	IVES	0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	<u> </u>		\angle		REMARI	KS	CERT. ID NO.	ID ÑO.
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W-58, 15'	Í		1215	i							V	سن ا	~								16179
W-6.71			1220								/	V	V								16180
W-6A, 15'			1225		·						/	'	•/								1618
W-7,7'			1230								/	~	~								16182
W-7 /3'			1235								V	~	~								16183
W-87'			/238								✓	· ·	*kan				,				16181
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W-8 18.5'			1242	and the second							~	~	<i></i>								16181
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Sampler's Signature						Sampled	By (Print	Name) _	O.F.	Palle	vson	亚		Affi	liation .						
Relinquished By Signature	-		-	1	Recei	ived By Signat						Date	MAN N	filitary/Ho			nal Comn				
Relinquished By: (Signature)	It	Ź ```			Recei	ived By: (Signati		/				Date /				4	8	NUV	tore	ノ	
Refinquished By: (Signature)		_/		1	Recei	ived For Prism-	aboratories	By:				Date 15/		1882	5/	000					
Method of Shipment				•								Log-In G	08171	189							
NPDES NC		sc	GI	ROUNDV	VAT	SC _			KING WAT	SC			OLID W	VASTE:	- sc		OT ·	HER:	NC SC		
OTHER		OTH	ER			OTH	ER			OT	HER				OI	HER			OTHER		

SEE REVERSE FOR TERMS & CONDITIONS

FINAL REPORT COPY



CHAIN OF CUSTODY RECORD Samples INTACT upon arrival? 449 Springbrook Road 🗻 Charlotte, NC 28217 Received ON WET ICE? Temp 4 P.O. Box 240543 A Charlotte, NC 28224-0543 PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES? Phone: 704/529-6364 A Fax: 704/525-0409 Full Service Analytical & Environmental Solutions CUSTODY SEALS INTACT? VOLATILES rec'd W/OUT HEADSPACE? PRESS DOWN FIRMLY - 3 COPIES PROPER CONTAINERS used? REPORT TO: Name DURINE Phillips Address PV. Pox 3008/Suntard, NC State Certification Requested Name BILL TO: Water Chlorinated Address Sample Iced Upon Collection Requested Due Date_ Project Name . (SEE REVERSE SIDE FOR RUSH TURNAROUND FEES) ANALYSES REQUESTED SUB TIME MATRIX PRISM SAMPLE CONTAINER LAB PRESERVA-CLIENT DATE COLLECTED (SOIL. LAB REMARKS CERT. TIVES COLLECTED MILITARY WATER OR ID'NO. SAMPLE DESCRIPTION *TYPE NO. ID NO. HOURS SLUDGE) SEE BELOW 16198 402 8/13/01 1250 1255 6200 1900 1620 1305 1620 1310 1620 1315 16204 1630 1620 8/10/01 1620 1640 O.F. Patterson III Affiliation -Sampled By (Print Name) Additional Comments Received By: (Signature) Received For Prism Laboratories By:/ Relinquished By: (Signature) Method of Shipment NC _____ GROUNDWATER: NC ____ DRINKING WATER: NC ____ SOLID WASTE: NPDES NC ____

OTHER ____

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

OTHER ____

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OTHER_

LAB USE ONLY



Full Service Analytical & Environmental Solutions

Execution

P.O.#/Billing Reference

Project Name

DDY RECORD / QUOTE #_

449 Springbrook Road 🔺 Charlotte, NC 28217 P.O. Box 240543 A Charlotte, NC 28224-0543

Phone: 704/529-6364 A Fax: 704/525-0409

PRESS DOWN FIRMLY - 3 COPIES

LAB USE ONL			- S. 75
Samples INTACT upon arrival? Received ON-WET ICE? Temp	YES	NO.	N/A
PROPER PRESERVATIVES indicated?		<u>, — : : : : : : : : : : : : : : : : : : </u>	<u></u>
Received WITHIN HOLDING TIMES? CUSTODY SEALS INTACT?			.
VOLATILES rec'd W/OUT HEADSPACE?			
PROPER CONTAINERS used?	· <u>· · · ·</u>	· 	

BILL TO: Requested De	Address	2733/ Requested Water Chloring Sample Iced U	NCSC OtherNA ted	
	EE REVERSE SIDE FOR RUSH TURN.	AROUND FEES)	. SUB	_

CLIENT	DAT	E	TIME COLLECTED	MATRIX (SOIL,	SAMPL	E CONTA	INER	PRESERVA-	/		ANALYSI	S REQU	JESTED /	/	/		SUB LAB	PRISM LAB
SAMPLE DESCRIPTION	COLLEC		MILITARY HOURS	WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	TIVES	0,	/ %/ LE/						REMARKS	CERT. ID NO.	ID NO.
B-6	8/10	101	1655	Soil	8	1	402		,	1								16188
B-7	-		1658			1				سمسا								16180
B-B			1700							-							<u> </u>	1619
B-9			1705							W								1614
B-10			1710							~								1619
B-11			1712							-								1619
B-12		-	1715							2								1619
B-13			1720				•			~	/							1619
B-14			1725						(0)	1	Layer							1619
B-15	A		1730	4	No.	V	A		(GD)	1	lum		,					1610

Sampler's Signature	Sampled By (Print Name)	Ratherson III Affiliat	ion
Relinduished Byy Signatute	Received By: (Signature)	Date Military/Hours	Additional Comments
Relinquistred By: (Signature)	Received By: (Signature)	Date /	48 hour turn
Relinquished By: (Signature)	Received For Prism Laboratories By:	Bate 8-15-01 1000	
Method of Shipment		Log-In Group No. #2817 H 89	
NPDES NCUST:		ER: NC SOLID WASTE: SC OTHER	NC OTHER: NC SC SC OTHER OTHER

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

FINAL REPORT COPY



Phone: 704/529-6364 A Fax: 704/525-0409 Received WITHIN HOLDING TIMES? Full Service Analytical & Environmental Solutions CUSTODY SEALS INTACT? VOLATILES réc'd'W/OUT HEADSPACE? PRESS DOWN FIRMLY - 3 COPIES Client Pathersa Exploration Services Physical Address 1907 Boure From Ruso Physical Address NC 27830 PROPER CONTAINERS used? REPORT TO: Name -State Certification NC ____SC ___ Other___NA Requested BILL TO: Water Chlorinated Address Sample Iced Upon Collection P.O.#/Billing Reference PXCOWhOs Requested Due Date (SEE-REVERSE SIDE FOR RUSH TURNAROUND FEES) ANALYSES REQUESTED SUB MATRIX TIME PRISM SAMPLE CONTAINER LAB PRESERVA-COLLECTED (SOIL, CLIENT DATE LAB REMARKS CERT. COLLECTED MILITARY WATER OR TIVES SAMPLE DESCRIPTION *TYPE ID.NO. NO. SIZE ID NO. HOURS SLUDGE) SEE BELOW 407 16208 8/10/01 1739 Joil B-14 R-17 1009 1740 10210 1745 167!1 1750 16213 1755 11/2/13 1800 16211 B-22 1805 16215 JW-1 1015 ١.... 16216 JW-2 1020 SW-3 1075 O.F. Patterson III Sampled By (Print Name) Affiliation Sampler's Signature Additional Comments 48 hour turn Received By: (Signature) Received For Prism Laboratories By: Log-In Group No. 7189 Method of Shipment NC _____ GROUNDWATER: NC _____ DRINKING WATER: NC _____ SOLID WASTE: NPDES NC ____ SC _____ OTHER _____ OTHER_ OTHER ____ OTHER____ SEE REVERSE FOR

CHAIN OF CUSTODY RECORD

449 Springbrook Road A Charlotte, NC 28217

P.O. Box 240543 A Charlotte, NC 28224-0543

PAGE OF QUOT

*CONTAINER TYPE CODES: A = Amber C =, Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

TERMS & CONDITIONS

LAB USE ONLY

Samples INTACT upon arrival?

Received ON WET ICE? Temp 4/1

PROPER PRESERVATIVES indicated?

N/Á



ull Service Analytical & E					Phone:		▲ Fax: 704	CUSTO	Received WITHIN HÖLDING TIMES? CUSTODY SEALS INTACT? VOLATILES rec'd W/OUT HEADSPACE?									
Client PULL (IN C) Physical Address 100 Phone 911-74 Phone P.O.#/Billing Reference Project Name	- 5/1	<u>/0</u> Fax	7/1:11	, d 4-3570	— Requeste	TO: Nam Addi Nam Addi d Due Da	e Duppers P.O. I	FOR RUSH TURN	San f	rd, 15	\(\frac{\z}{3\tau}\)	Water Chlorinated Yes No NA Market No Sample Iced Upon Collection Yes No						
CLIENT		ATE	TIME COLLECTED	MATRIX (SOIL,	SAMPI	E CONTA	INER	PRESERVA-		~	ANALYSI	S REQUES	REQUESTED		4.	SUB	PRISM	
SAMPLE DESCRIPTION		ECTED	MILITARY HOURS	WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	TIVES	/		¥X		<u> </u>		REMARKS	CERT.	ID NO.	
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JW-6			1040						~	~	~						1622	
JW-7			1045						~	V	~					ē	16221	
JW-8			1050				-		1	5	اسا.						1622	
JW-9			1055							V	7						1622	
JW-10			/100						~	سما	5						16224	
JW-11			1105						5								16726	
JW-12	7	7	1/10	4	4	4	4	,	~	v	1		, 3		• .	<u>. </u>	1622	
							<u> </u>					- }				<u> </u>		
Sampler's Signature	· -				Sampled I		Name)					Affiliat						
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Method of Shipment	-		<u> </u>							Lòg-In G	iroup No.	189						
NPDES NC	UST:			ROUNDWAT	ER: NC _		DRINKIN	G WATER: NO		8	SOLID W	ASTE:	NC SC	07	THER: NC SC			
SC OTHER			ER			R		OT	HER _				OTHER.		OTHER			
CONTAINER TYPE COL	DES: A	\ = Ambe	r C = Clear	G = Glass	P = Plastic;	TL = Te	flon-Lined C	ap VOA = Volat	ile Orga	anics An	alysis (Z	ero Head	Space)	SEE TERM	REVERSE FOR IS & CONDITIONS	PEPOPT :	COPY	

CHAIN OF CUEDDY RECORD

449 Springbrook Road 🔺 Charlotte, NC 28217 P.O. Box 240543 Charlotte, NC 28224-0543 LAB USE ONLY

Samples INTACT upon arrival?
Received ON WET ICE? Temp
PROPER PRESERVATIVES indicated?

Received WITHIN HOLDING TIMES?



9/14/01

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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-1, 1

Prism Sample ID: AC18024

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

08:15

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	690	mg/kg	. 100	8015MOD/3550	9/5/01 04:44	GRR
OIL AND GREASE	2700	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	91	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-1-1, 3

PO Box 3008

Prism Sample ID: AC18025

Login Group: AO910H61

Sanford, NC 27330

Sample Collection Date/Time: 8/29/01

08:15

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 05:25	GRR
OIL AND GREASE	100	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson

Sanford, NC 27330

PO Box 3008

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-1, 6
Prism Sample ID: AC18026

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

08:30

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 06:08	GRR
OIL AND GREASE	76	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	84	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-1-1, 8

PO Box 3008

Prism Sample ID: AC18027

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

08:30

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 09:47	GRR
OIL AND GREASE	50	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	88	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-1-2, 3

PO Box 3008

Prism Sample ID: AC18028

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

08:35

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 10:29	GRR
OIL AND GREASE	130	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-1-2, 7

PO Box 3008

Prism Sample ID: AC18029

Login Group: AO910H61

Sanford, NC 27330

Sample Collection Date/Time: 8/29/01 Lab Submittal Date/Time: 8/30/01

08:40 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 11:11	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-1-2, 10

PO Box 3008 Prism Sample ID: AC18030
Login Group: AO910H61

Sanford, NC 27330

Sample Collection Date/Time: 8/29/01 08:42

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 11:54	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	91	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson PO Box 3008

Customer Sample ID: T-1-3, 4

Sanford, NC 27330

Prism Sample ID: AC18031 Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

08:45 Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 12:37	GRR
OIL AND GREASE	58	mg/kg	50	9071	9/4/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-1-3, 7

PO Box 3008

Prism Sample ID: AC18032

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

08:50 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 13:21	GRR
OIL AND GREASE	230	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/14/01

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Patterson Exploration Services

Russ Patterson

PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-3, 16

Prism Sample ID: AC18033

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 08:55

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 14:03	GRR
OIL AND GREASE	250	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	92	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/14/01

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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-4, 3
Prism Sample ID: AC18034

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 09:01

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 14:45	GRR
OIL AND GREASE	220	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:

9/14/01



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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-4, 7.5 Prism Sample ID: AC18035

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 09:04

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 15:27	GRR
OIL AND GREASE	490	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-4, 16
Prism Sample ID: AC18036

Login Group: AO910H61

Login Group: AO910H6
Sample Collection Date/Time: 8/29/01

nple Collection Date/Time: 8/29/01 09:20 Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 16:08	GRR
OIL AND GREASE	330	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



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Patterson Exploration Services Customer Project ID: NLTC-080201

Russ Patterson
PO Box 3008

Customer Sample ID: T-1-5, 4
Prism Sample ID: AC18037

Sanford, NC 27330 Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 09:40
Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 16:50	GRR
OIL AND GREASE	320	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-5, 8

Prism Sample ID: AC18038

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

09:50 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 17:32	GRR
OIL AND GREASE	290	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson

Sanford, NC 27330

PO Box 3008

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-5, 19 Prism Sample ID: AC18039

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 10:00

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/5/01 18:13	GRR
OIL AND GREASE	210	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/4/01 19:00	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Sanford, NC 27330

PO Box 3008

Customer Sample ID: T-1-6, 6

Prism Sample ID: AC18040

Sample Collection Date/Time: 8/29/01

Login Group: AO910H61

Lab Submittal Date/Time: 8/30/01

10:08 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 08:34	GRR
OIL AND GREASE	230	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



Full Service Analytical & Environmental Solutions

9/14/01

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Patterson Exploration Services

Russ Patterson

Sanford, NC 27330

PO Box 3008

Customer Project ID: NLTC-080201

Customer Sample ID: T-1-6, 18 Prism Sample ID: AC18041

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 10:20 Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 00:30	GRR
OIL AND GREASE	180	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-1, 3

PO Box 3008

Prism Sample ID: AC18042

Login Group: AO910H61

Sanford, NC 27330 Sample Collection Date/Time: 8/29/01 11:25

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 01:13	GRR
OIL AND GREASE	110	mg/kg	50 ,	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-2-1, 6

Prism Sample ID: AC18043

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 11:30

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 09:16	GRR
OIL AND GREASE	310	mg/kg	50	9071	9/4/01 17:30	GRR
CALCULATIONS BASED ON DRY WT.	84	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-1, 1

PO Box 3008

Prism Sample ID: AC18044

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

11:30

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	32	mg/kg	10	8015MOD/3550	9/6/01 11:05	GRR
OIL AND GREASE	590	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	80	, % DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/5/01 20:30	JLW

Sample Comments:

Analysis note for DRO: The chromatographic peak pattern may represent that of a watse oil, rather than #2 fuel oil.



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-1, 12

PO Box 3008

Prism Sample ID: AC18045

Sanford, NC 27330

Login Group: AO910H61

11:40

Sample Collection Date/Time: 8/29/01 Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/6/01 15:59	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	88	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/5/01 20:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-2, 4

PO Box 3008

Prism Sample ID: AC18046

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

11:50

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/6/01 16:41	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/5/01 20:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-2, 10

PO Box 3008

Prism Sample ID: AC18047

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

11:55

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER .	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/6/01 17:23	GRR
OIL AND GREASE	67	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	86	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/5/01 20:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-3, 4

PO Box 3008

Prism Sample ID: AC18048

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

11:58

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/6/01 18:05	GRR
OIL AND GREASE	89	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/5/01 20:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson PO Box 3008

Customer Sample ID: T-2-3, 6

Sanford, NC 27330

Prism Sample ID: AC18049

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

12:05

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/6/01 18:48	GRR
OIL AND GREASE	81	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	92	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/5/01 20:30	JLW
· · · · · · · · · · · · · · · · · · ·	Completed			344040-3330	9/3/01 20.30	JLV

Sample Comments:



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Patterson Exploration Services Customer Project ID: NLTC-080201

Russ Patterson

PO Box 3008

Prism Sample ID: AC18050

Login Group: AO910H61

Sanford, NC 27330 Sample Collection Date/Time: 8/29/01 12:06

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 02:36	GRR .
OIL AND GREASE	Less than	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-4, 6

PO Box 3008

Prism Sample ID: AC18051

Login Group: AO910H61

Sanford, NC 27330

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

12:10 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 03:17	GRR
OIL AND GREASE	57	mg/kg	50	9071	9/5/01 11:15	GRR
CALCULATIONS BASED ON DRY WT.	86	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-5, 4

PO Box 3008

Prism Sample ID: AC18052

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

12:20

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	15	mg/kg	10	8015MOD/3550	9/10/01 09:57	GRR
OIL AND GREASE	250	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	84	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:

Analysis note for DRO: The chromatographic peak pattern may represent that of a waste oil, rather than #2 fuel oil.



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15:30

Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-2-6, 3.5 Prism Sample ID: AC18053

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 12:28 Lab Submittal Date/Time: 8/30/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 04:41	GRR
OIL AND GREASE	110	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-2-6, 7

PO Box 3008

Prism Sample ID: AC18054

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

12:30 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 05:24	GRR
OIL AND GREASE	100	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JM∨

Sample Comments:



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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-2-6, 16

Prism Sample ID: AC18055

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 12:40 Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 06:05	GRR
OIL AND GREASE	120	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-3-1, 3

PO Box 3008 Sanford, NC 27330 Prism Sample ID: AC18056

Sample Collection

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 Lab Submittal Date/Time: 8/30/01

1 13:45

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	. 8015MOD/3550	9/7/01 06:47	GRR
OIL AND GREASE	260	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-3-2, 3

PO Box 3008

Prism Sample ID: AC18057

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

13:46

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 09:34	GRR
OIL AND GREASE	430	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

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Customer Project ID: NLTC-080201

Customer Sample ID: T-3-1, 6

Prism Sample ID: AC18058

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 13:50

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 10:16	GRR
OIL AND GREASE	120	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson

PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-3-2, 6

Prism Sample ID: AC18059

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 13:52

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 10:38	GRR
OIL AND GREASE	130	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-3-1, 12

PO Box 3008

Prism Sample ID: AC18060

Login Group: AO910H61

Sanford, NC 27330

Sample Collection Date/Time: 8/29/01

13:57

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 11:20	GRR
OIL AND GREASE	160	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson

PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-3-2, 12

Prism Sample ID: AC18061

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

14:09

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 12:24	GRR
OIL AND GREASE	140	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-3-2, 18

PO Box 3008

Prism Sample ID: AC18062

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

14:08

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 13:07	GRR
OIL AND GREASE	200	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	85	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-3-3, 3

PO Box 3008

Prism Sample ID: AC18064

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

14:15 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 14:31	GRR
OIL AND GREASE	130	mg/kg	50	9071	9/5/01 17:45	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson
PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-3-3, 6

Prism Sample ID: AC18065

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

14:1715:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 15:14	GRR
OIL AND GREASE	190	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

PO Box 3008

Customer Sample ID: T-3-3, 21 Prism Sample ID: AC18066

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

14:30 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 22:14	GRR
OIL AND GREASE	230	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	72	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-3-5, 3

Prism Sample ID: AC18067

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

14:50 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 22:55	GRR
OIL AND GREASE	170	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson PO Box 3008

Customer Sample ID: T-3-4, 3

Prism Sample ID: AC18068

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

14:55

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/7/01 23:37	GRR
OIL AND GREASE	77	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-3-5, 6

Prism Sample ID: AC18069

PO Box 3008 Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

14:59 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 00:18	GRR
OIL AND GREASE	120	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-3-4, 6

PO Box 3008

Prism Sample ID: AC18071

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

Lab Submittal Date/Time: 8/30/01

15:10 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 01:41	GRR
OIL AND GREASE	140	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson PO Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-3-4, 19
Prism Sample ID: AC18072

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 15:18 Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 02:23	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	84	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-4-1, 6

PO Box 3008

Prism Sample ID: AC18073

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time:

8/29/01

Lab Submittal Date/Time: 8/30/01

15:30 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 10:03	GRR
OIL AND GREASE	82	mg/kg	50	9071	9/6/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson Po Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-4-1, 14 Prism Sample ID: AC18074

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 15:45 15:30

Lab Submittal Date/Time: 8/30/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 03:45	GRR
OIL AND GREASE	220	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-4-2, 3

Po Box 3008

Prism Sample ID: AC18075

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

15:50

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMÈTER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 04:26	GRR
OIL AND GREASE	240	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson Po Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-4-2, 6

Prism Sample ID: AC18076

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 15:55

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 05:08	GRR
OIL AND GREASE	250	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 14:30	VML

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-4-2, 15

Po Box 3008

Prism Sample ID: AC18077

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

15:59

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 05:49	GRR
OIL AND GREASE	180	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 15:00	JMV

Sample Comments:



9/14/01

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Patterson Exploration Services

Russ Patterson Po Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-4-3, 3

Prism Sample ID: AC18078

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01 16:05 Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 06:30	GRR
OIL AND GREASE	190	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/4/01 15:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson

Po Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-4-3, 6

Prism Sample ID: AC18079

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

16:08

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

EST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ess than	mg/kg	10	8015MOD/3550	9/11/01 08:40	GRR
90	mg/kg	50	9071	9/6/01 16:45	GRR
7	% DRY WT.	0.01	SM 2540 G	9/5/01 17:40	JLW
Completed			SW846-3550	9/6/01 15:00	JMV
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Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson

Customer Sample ID: T-4-1, 3 Prism Sample ID: AC18080

Po Box 3008

Sanford, NC 27330

Login Group: AO910H61

15:25

Sample Collection Date/Time: 8/29/01 Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 09:21	GRR
OIL AND GREASE	170	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	9/5/01 17:40	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 15:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson Po Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-4-3, 15

Prism Sample ID: AC18081

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

16:15

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/8/01 01:00	GRR
OIL AND GREASE	190	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/5/01 17:40	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 15:00	JMV

Sample Comments:



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16:20

15:30

Patterson Exploration Services

Russ Patterson Po Box 3008

Sanford, NC 27330

Customer Project ID: NLTC-080201

Customer Sample ID: T-4-4, 1

Prism Sample ID: AC18082

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01
Lab Submittal Date/Time: 8/30/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	1100	mg/kg	200	8015MOD/3550	9/13/01 08:38	GRR
OIL AND GREASE	1100	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	90	% DRY WT.	0.01	SM 2540 G	9/5/01 17:40	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson Po Box 3008

Customer Sample ID: T-4-4, 3 Prism Sample ID: AC18083

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

16:22

Lab Submittal Date/Time: 8/30/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 13:40	GRR
OIL AND GREASE	290	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	9/5/01 17:40	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



9/14/01

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Patterson Exploration Services

Customer Project ID: NLTC-080201

Russ Patterson Po Box 3008

Customer Sample ID: T-4-4, 6 Prism Sample ID: AC18084

Sanford, NC 27330

Login Group: AO910H61

Sample Collection Date/Time: 8/29/01

16:25

Lab Submittal Date/Time: 8/30/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 14:23	GRR
OIL AND GREASE	220	mg/kg	50	9071	9/6/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	9/5/01 17:40	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:

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*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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9/17/01

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Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-4-4@19

Prism Sample ID: AC18278

1907 Boone Trail Rd.

Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01

08:21

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 15:06	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/10/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



9/17/01

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Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-4-5@1

1907 Boone Trail Rd.

Prism Sample ID: AC18279

Sanford, NC 27330

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

08:23

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	600	mg/kg	100	8015MOD/3550	9/13/01 07:55	GRR
OIL AND GREASE	8400	mg/kg	50	9071	9/10/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	91	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

Page 3 of 51

Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-4-5@3

Prism Sample ID: AC18280

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

08:25

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	37	mg/kg	10	8015MOD/3550	9/13/01 03:46	GRR
OIL AND GREASE	210	mg/kg	50	9071	9/10/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-4-5@6

Prism Sample ID: AC18281

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

Lab Submittal Date/Time: 8/31/01

08:29

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 15:49	GRR
OIL AND GREASE	1100	mg/kg	50	9071	9/10/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	73	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-4-5@20

Prism Sample ID: AC18282

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

08:45

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 16:31	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:

Method 9071 not performed due to all sample being used for DRO analysis.



9/17/01

Page 6 of 51

Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-4-6@3

1907 Boone Trail Rd.

Prism Sample ID: AC18283 Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01

08:48

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 17:12	GRR
OIL AND GREASE	86	mg/kg	50	9071	9/10/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Page 7 of 51

Customer Project ID: OW(NLTC)

Customer Sample ID: T-4-6@6

Prism Sample ID: AC18284

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

Lab Submittal Date/Time: 8/31/01

08:51 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 19:16	GRR
OIL AND GREASE	340	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	67	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Customer Project ID: OW(NLTC)

Customer Sample ID: T-4-6@19

Prism Sample ID: AC18285

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 09:00
Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 20:01	GRR
OIL AND GREASE	210	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:

Sanford, NC 27330



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Customer Project ID: OW(NLTC)

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Patterson Exploration Services

Customer Sample ID: T-5-1@1

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18286

Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01

10:03

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	39	mg/kg	10	8015MOD/3550	9/13/01 03:03	GRR
OIL AND GREASE	130	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	92	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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19:00

Patterson Exploration Services

Customer Project ID: OW(NLTC) Customer Sample ID: T-5-1@3

Russ Patterson

Prism Sample ID: AC18287

1907 Boone Trail Rd.

Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01 10:05

Lab Submittal Date/Time: 8/31/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 20:43	GRR
OIL AND GREASE	290	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-1@6

Prism Sample ID: AC18288

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 10:08

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 21:24	GRR
OIL AND GREASE	290	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-1@12 Prism Sample ID: AC18289

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

10:13

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 22:07	GRR
OIL AND GREASE	240	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	86	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-2@2.5

Prism Sample ID: AC18290

Sanford, NC 27330 Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 10:16

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	23000	mg/kg	2000	8015MOD/3550	9/13/01 09:19	GRR
OIL AND GREASE	24000	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	85	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

Customer Sample ID: T-5-2@6

1907 Boone Trail Rd.

Prism Sample ID: AC18291

Sanford, NC 27330

Login Group: AO911H46

Customer Project ID: OW(NLTC)

Sample Collection Date/Time: 8/30/01

10:22

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 22:50	GRR
OIL AND GREASE	180	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	91	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-5-2@12

Prism Sample ID: AC18292

1907 Boone Trail Rd.

Login Group: AO911H46

10:26

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 23:31	GRR
OIL AND GREASE	310	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	84	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-2@18

Prism Sample ID: AC18293

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

10:31

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/13/01 00:12	GRR
OIL AND GREASE	250	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-3@3

Prism Sample ID: AC18294

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 10:35 Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/13/01 00:55	GRR
OIL AND GREASE	130	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-3@6

Prism Sample ID: AC18295

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

10:37

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 10:46	GRR
OIL AND GREASE	190	mg/kg	50	9071	9/10/01 16:45	GRR
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-5-3@11

1907 Boone Trail Rd.

Prism Sample ID: AC18296

Sanford, NC 27330

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

10:42

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
Less than	mg/kg	10	8015MOD/3550	9/11/01 11:28	GRR
120	mg/kg	50	9071	9/11/01 11:00	GRR
87	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
Completed			SW846-3550	9/6/01 10:00	JMV
	RESULT Less than 120 87	RESULT UNITS Less than mg/kg 120 mg/kg 87 % DRY WT.	RESULT UNITS LIMIT Less than mg/kg 10 120 mg/kg 50 87 % DRY WT. 0.01	RESULT UNITS LIMIT REFERENCE Less than mg/kg 10 8015MOD/3550 120 mg/kg 50 9071 87 % DRY WT. 0.01 SM 2540 G	RESULT UNITS LIMIT REFERENCE STARTED Less than mg/kg 10 8015MOD/3550 9/11/01 11:28 120 mg/kg 50 9071 9/11/01 11:00 87 % DRY WT. 0.01 SM 2540 G 9/6/01 17:45

Sample Comments:



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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-4@3

Prism Sample ID: AC18297

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

10:45

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 21:29	GRR
OIL AND GREASE	120	mg/kg	50	9071	9/11/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	67	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV
OIL AND GREASE CALCULATIONS BASED ON DRY WT.	120 67	mg/kg	50	9071 SM 2540 G	9/11/01 11:00 9/6/01 17:45	GF JL

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC) Customer Sample ID: T-5-4@6

Prism Sample ID: AC18298

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 Lab Submittal Date/Time: 8/31/01 10:47

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 22:11	GRR
OIL AND GREASE	150	mg/kg	50	9071	9/11/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	68	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC) Customer Sample ID: T-5-4@11

Prism Sample ID: AC18299

Login Group: AO911H46 Sample Collection Date/Time: 8/30/01 10:51

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 22:52	GRR
OIL AND GREASE	78	mg/kg	50	9071	9/11/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-5-5@3

1907 Boone Trail Rd.

Prism Sample ID: AC18300

Sanford, NC 27330

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

10:55

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/10/01 23:34	GRR
OIL AND GREASE	150	mg/kg	50	9071	9/11/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	VML

Sample Comments:



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-5-5@6

1907 Boone Trail Rd.

Prism Sample ID: AC18301

Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01

10:59

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 00:17	GRR
OIL AND GREASE	56	mg/kg	50	9071	9/11/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	88	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-5@12

Prism Sample ID: AC18302

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

11:06

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 00:58	GRR
OIL AND GREASE	74	mg/kg	50 .	9071	9/11/01 11:00	GRR'
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Customer Project ID: OW(NLTC) Patterson Exploration Services Customer Sample ID: T-5-6@3 Russ Patterson Prism Sample ID: AC18303 1907 Boone Trail Rd. Sanford, NC 27330

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 11:09 Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 01:40	GRR
OIL AND GREASE	65	mg/kg	50	9071	9/11/01 11:00	GRR
CALCULATIONS BASED ON DRY WT.	84	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed	••		SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-5-6@6

Prism Sample ID: AC18304

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

Lab Submittal Date/Time: 8/31/01

11:14 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 02:22	GRR
OIL AND GREASE	93	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Septend NC 27220

Customer Project ID: OW(NLTC)

Customer Sample ID: T-6-1@1

Prism Sample ID: AC18305

Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01 12:58

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	17	mg/kg	10	8015MOD/3550	9/12/01 06:36	GRR
OIL AND GREASE	220	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:

Analysis note for DRO: The chromatographic peak pattern may represent that of a waste oil rather than #2 fuel oil.



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-6-1@3

Prism Sample ID: AC18306

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

13:00

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 03:48	GRR
OIL AND GREASE	110	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	90	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-6-1@6

Prism Sample ID: AC18307

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

13:03

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 04:29	GRR
OIL AND GREASE	7000	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Page 31 of 51

Customer Project ID: OW(NLTC)
Customer Sample ID: T-6-1@12
Prism Sample ID: AC18308

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:09
Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 05:11	GRR
BENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
BROMOBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
BROMOFORM	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
BROMOMETHANE	Not detected	ug/kg	14.0	8260B/5030	9/10/01 20:12	MP
N-BUTYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
CHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
CHLOROETHANE	Not detected	ug/kg	14.0	8260B/5030	9/10/01 20:12	MP
CHLOROFORM	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
CHLOROMETHANE	Not detected	ug/kg	14.0	8260B/5030	9/10/01 20:12	MP
2-CHLOROTOLUENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
4-CHLOROTOLUENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	14.0	8260B/5030	9/10/01 20:12	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
DIBROMOMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,1-DICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18308

Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01 13:09

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2-DICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
ETHYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
ISOPROPYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
METHYLENE CHLORIDE	Not detected	ug/kg	140.0	8260B/5030	9/10/01 20:12	MP
NAPHTHALENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
N-PROPYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
STYRENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
TETRACHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
TOLUENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
TRICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
VINYL CHLORIDE	Not detected	ug/kg	14.0	8260B/5030	9/10/01 20:12	MP
TOTAL XYLENES	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
2-BUTANONE (MEK)	Not detected	ug/kg	70.0	8260B/5030	9/10/01 20:12	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	14.0	8260B/5030	9/10/01 20:12	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	70.0	8260B/5030	9/10/01 20:12	MP



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-6-1@12

Prism Sample ID: AC18308

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:09
Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ACETONE	Not detected	ug/kg	140.0	8260B/5030	9/10/01 20:12	MP
CARBON DISULFIDE	Not detected	ug/kg	140.0	8260B/5030	9/10/01 20:12	MP
VINYL ACETATE	Not detected	ug/kg	70.0	8260B/5030	9/10/01 20:12	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
2-HEXANONE	Not detected	ug/kg	70.0	8260B/5030	9/10/01 20:12	MP
IPE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
MTBE	Not detected	ug/kg	7.0	8260B/5030	9/10/01 20:12	MP
SURR:DIBROMOFLUOROMETHANE	96	%	70-130	8260B/5030	9/10/01 20:12	MP
SURR:TOLUENE-D8	102	%	70-130	8260B/5030	9/10/01 20:12	MP
SURR:BROMOFLUOROBENZENE	117	%	70-130	8260B/5030	9/10/01 20:12	MP
OIL AND GREASE	200	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	71	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV
PREP. METHOD 3550	Completed			SW846-3550B	9/5/01 15:00	JMV
ACENAPHTHENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
ACENAPHTHYLENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
ANTHRACENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BENZO(A)PYRENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Septent NC 27220

Customer Project ID: OW(NLTC)

Customer Sample ID: T-6-1@12

AC18308

Login Group: AO911H46

Sanford, NC 27330 Sample Collection Date/Time: 8/30/01 13:09

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2-CHLOROPHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
CHRYSENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
DIBENZOFURAN	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2,4-DINITROPHENOL	Not detected	ug/kg	2400	SW846-8270C	9/10/01 23:52	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2,6-DINITROTOLUENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
FLUORANTHENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
FLUORENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
HEXACHLOROBENZENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
HEXACHLOROETHANE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
ISOPHORONE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	2400	SW846-8270C	9/10/01 23:52	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2-METHYL-PHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC



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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW(NLTC)
Customer Sample ID: T-6-1@12
Prism Sample ID: AC18308

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:09
Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
4-METHYL-PHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
NAPHTHALENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
NITROBENZENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2-NITROPHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
4-NITROPHENOL	Not detected	ug/kg	2400	SW846-8270C	9/10/01 23:52	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	2400	SW846-8270C	9/10/01 23:52	HWC
PHENANTHRENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
PHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
PYRENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	480	SW846-8270C	9/10/01 23:52	HWC



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC) Customer Sample ID: T-6-1@12 Prism Sample ID: AC18308

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

13:09

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18309

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:14

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 05:52	GRR
OIL AND GREASE	7400	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	85	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:

Sanford, NC 27330



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Customer Project ID: OW(NLTC)

Russ Patterson

Customer Sample ID: T-6-2@3

Prism Sample ID: AC18310

1907 Boone Trail Rd.

Sanford, NC 27330

Prism Sample ID: AC18310

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:18

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 06:34	GRR
OIL AND GREASE	160	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	77	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18311

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:22
Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEOT		DEDODTINO	METHOD	DATECHE	
PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 07:16	GRR
OIL AND GREASE	190	mg/kg	50	9071	9/12/01 11:30	GRR
CALCULATIONS BASED ON DRY WT.	75	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:

Sanford, NC 27330



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: OW(NLTC)
Customer Sample ID: T-6-2@16

Prism Sample ID: AC18312

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:30

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 07:58	GRR
OIL AND GREASE	110	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	89	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18313

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:36
Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	68	mg/kg	10	8015MOD/3550	9/12/01 07:17	GRR
OIL AND GREASE	970	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	86	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/6/01 10:00	JMV

Sample Comments:

Sanford, NC 27330

Analysis note for DRO: The chromatographic peak pattern may represent that of a waste oil, rather than #2 fuel oil.



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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC) Customer Sample ID: T-6-3@3 Prism Sample ID: AC18314

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

13:38 Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	36	mg/kg	10	8015MOD/3550	9/12/01 09:26	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)
Customer Sample ID: T-6-3@6

Prism Sample ID: AC18315

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:41

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 17:45	GRR
OIL AND GREASE	73	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	74	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18316

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:46 Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 21:55	GRR
OIL AND GREASE	120	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:

Sanford, NC 27330



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9/17/01

Customer Project ID: OW(NLTC) Patterson Exploration Services Customer Sample ID: T-6-4@1 Russ Patterson Prism Sample ID: AC18317 1907 Boone Trail Rd. Login Group: AO911H46

Sanford, NC 27330 Sample Collection Date/Time: 8/30/01 13:49 Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	35	mg/kg	10	8015MOD/3550	9/12/01 08:43	GRR
OIL AND GREASE	170	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	66	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:

Analysis note for DRO: The chromatographic peak pattern includes compounds with greater molecular weight ranges than #2 fuel oil.



Full Service Analytical & Environmental Solutions

9/17/01

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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC) Customer Sample ID: T-6-4@6 Prism Sample ID: AC18318

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:53

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ess than	mg/kg	10	8015MOD/3550	9/11/01 18:27	GRR
00	mg/kg	50	9071	9/12/01 17:00	GRR
5	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
ompleted			SW846-3550	9/7/01 19:30	JLW
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Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)
Customer Sample ID: T-6-4@12
Prism Sample ID: AC18319

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 13:57

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 19:08	GRR
OIL AND GREASE	80	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

9/17/01

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW(NLTC)

Customer Sample ID: T-6-5@1
Prism Sample ID: AC18320

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 14:00

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/12/01 08:00	GRR
OIL AND GREASE	250	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:



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9/17/01

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Patterson Exploration Services Russ Patterson

Customer Project ID: OW(NLTC) Customer Sample ID: T-6-5@3

1907 Boone Trail Rd.

Prism Sample ID: AC18321

Sanford, NC 27330

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01

14:04

Lab Submittal Date/Time: 8/31/01

19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 19:49	GRR
OIL AND GREASE	93	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18322

Login Group: AO911H46

Sample Collection Date/Time: 8/30/01 14:07
Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 20:31	GRR
OIL AND GREASE	Less than	mg/kg	50	9071	9/12/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:

Sanford, NC 27330



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18323

Login Group: AO911H46

Sanford, NC 27330

Sample Collection Date/Time: 8/30/01 14:09

Lab Submittal Date/Time: 8/31/01 19:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/11/01 21:13	GRR
CALCULATIONS BASED ON DRY WT.	80	% DRY WT.	0.01	SM 2540 G	9/6/01 17:45	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/7/01 19:30	JLW

Sample Comments:

Method 9071 not performed due to all sample being used for DRO analysis.



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102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 FAX: (919) 467-3515

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CHAIN OF CUS DY Page 3 of 5

1229 N. HORNER BLVD. • SANFORD, NC 27330 (919) 775-1880 • Fax (919) 776-5724

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PRISM LABORATORIES, INC. 449 SPUNGBURDIC RD, L. TINOTIE, NC. 28217

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Page 4 of 5

1229 N. HORNER BLVD. SANFORD NC 27330 (919) 775-1880 • Fax (919) 776-5724

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1229-N. HORNER BLVD. • SANFORD, NC 27330 (919) 775 1880 • Fax (919) 776-5724, "

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Will the results be used for regulatory monitor	ing purposes? Yes No _	:				13	空	ļ			NONE	ASCORBIC	NaS ₂ O ₃	NaOH	H ₂ SO ₄	HNO3	덮	RECEIVED ON ICE		
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Today's Date: October 3, 2001

REVISED LABORATORY REPORT

Patterson Exploration Services

Attn: Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Client Project ID: OW (NLTC)
Client Sample ID: TP-1 @ 0-7 thru TP-4 @7
Prism Sample ID: AC18511 - AC18520

Prism Login Group: 3316H10

The attached laboratory report is a revision and supersedes our original laboratory report dated September 18, 2001 $\,$.

If you have questions, please call us.

Angela D. Overcash, V.P. Laboratory Services

Prepared by: Paula Gilleland

F:\common\revlab.xls

Created 3/16/00 Revised 3/30/00



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Customer Project ID: OW (NLTC)

Customer Sample ID: TP-1 @ 0'-7'

Prism Sample ID: AC18511

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 14:30 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/14/01 08:12	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 13:08	KC
OIL AND GREASE	110	mg/kg	50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	Less than	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	87	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
SW846-9071 TPH OIL AND GREASE RE	91	mg/kg	50	SW846-9071	9/25/01 09:30	DMM

Sample Comments:

Sanford, NC 27330

This report is a revision and supersedes our original laboratory report dated 9/17/01.



Full Service Analytical & Environmental Solutions

10/3/01

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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-1 @ 12'
Prism Sample ID: AC18512
Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 14:35 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TICs BY SEMIVOLATILE GC/MS				625/8270	9/12/01 18:39	HWC
625/8270 Tentatively Ident	ified Com	ounds (10-1	argest TICs):			
<identification class=""></identification>		Closest Spe		<est. conc.=""></est.>		
Unknown aliphatic hydrocar Unknown	bon bon bon bon bon bon bon bon bon	(Unknown)		840 ug/kg 970 ug/kg 960 ug/kg 770 ug/kg 700 ug/kg 570 ug/kg 510 ug/kg 470 ug/kg 550 ug/kg		
TPH - DIESEL RANGE	77	mg/kg	10	8015MOD/3550	9/13/01 20:40	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 13:45	KC
BENZENE	, Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
BROMOBENZENE	Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
BROMOCHLOROMETHANE	Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
BROMODICHLOROMETHANE	Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
BROMOFORM	Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
BROMOMETHANE	Not detecte	d ug/kg	14.0	8260B/5030	9/11/01 17:29	MP
N-BUTYLBENZENE	Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
SEC-BUTYLBENZENE	Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
TERT-BUTYLBENZENE .	Not detecte	d ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
CARBON TETRACHLORIDE	Not detecte		7.0	8260B/5030	9/11/01 17:29	MP
CHLOROBENZENE	Not detecte	d ug/kg	7.0	8260B/5030	.9/11/01 17:29	MP
CHLORODIBROMOMETHANE	Not detecte		7.0	8260B/5030	9/11/01 17:29	MP
CHLOROETHANE	Not detecte		14.0	8260B/5030	9/11/01 17:29	MP
CHLOROFORM	Not detecte		7.0	8260B/5030	9/11/01 17:29	MP
CHLOROMETHANE	Not detecte		14.0	8260B/5030	9/11/01 17:29	MP
2-CHLOROTOLUENE	Not detecte		7.0	8260B/5030	9/11/01 17:29	MP
4-CHLOROTOLUENE	Not detecte		7.0	8260B/5030	9/11/01 17:29	`MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detecte		14.0	8260B/5030	9/11/01 17:29	MP



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18512

Login Group: 3316H10

Sanford, NC 27330

Sample Collection Date/Time: 8/31/01 14:35

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2-DIBROMOETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
DIBROMOMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,1-DICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
ETHYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
ISOPROPYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
METHYLENE CHLORIDE	Not detected	ug/kg	140.0	8260B/5030	9/11/01 17:29	MP
NAPHTHALENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
N-PROPYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
STYRENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
TETRACHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
TOLUENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP



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10/3/01

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Patterson Exploration Services
Russ Patterson

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-1 @ 12'
Prism Sample ID: AC18512
Login Group: 3316H10

1907 Boone Trail Rd. Sanford, NC 27330

Sample Collection Date/Time: 8/31/01 14:35 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
TRICHLOROETHENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
VINYL CHLORIDE	Not detected	ug/kg	14.0	8260B/5030	9/11/01 17:29	MP
TOTAL XYLENES	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
2-BUTANONE (MEK)	Not detected	ug/kg	70.0	8260B/5030	9/11/01 17:29	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	14.0	8260B/5030	9/11/01 17:29	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	70.0	8260B/5030	9/11/01 17:29	MP
ACETONE	Not detected	ug/kg	140.0	8260B/5030	9/11/01 17:29	MP
CARBON DISULFIDE	Not detected	ug/kg	140.0	8260B/5030	9/11/01 17:29	MP
VINYL ACETATE	Not detected	ug/kg	70.0	8260B/5030	9/11/01 17:29	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
2-HEXANONE	Not detected	ug/kg	70.0	8260B/5030	9/11/01 17:29	MP
IPE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
MTBE	Not detected	ug/kg	7.0	8260B/5030	9/11/01 17:29	MP
SURR:DIBROMOFLUOROMETHANE	89	%	70-130	8260B/5030	9/11/01 17:29	MP
SURR:TOLUENE-D8	98	%	70-130	8260B/5030	9/11/01 17:29	MP
SURR:BROMOFLUOROBENZENE	108	%	70-130	8260B/5030	9/11/01 17:29	MP
44 to 100 to 100 to 100 to 100 to						
OIL AND GREASE	83	mg/kg	50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	75	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	72	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
METALS DIGESTION METHOD 3050	Completed			SW846-3050	9/10/01 12:15	LC2
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
PREP. METHOD 3550	Completed			SW846-3550B	9/7/01 15:00	JMV
LEAD, TOTAL	6.0	mg/kg	1.0	SW846-6010B	9/11/01 22:20	MSC



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18512

Login Group: 3316H10

Sanford, NC 27330
Sample Collection Date/Time: 8/31/01 14:35
Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CHROMIUM, TOTAL	23	mg/kg	1.0	SW846-6010B	9/11/01 22:20	MSC
ACENAPHTHENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
ACENAPHTHYLENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
ANTHRACENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BENZO(A)PYRENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2-CHLOROPHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
CHRYSENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
DIBENZOFURAN	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC



Full Service Analytical & Environmental Solutions

10/3/01

Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

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Customer Project ID: OW (NLTC) Customer Sample ID: TP-1 @ 12'

Prism Sample ID: AC18512

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 14:35 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2,4-DINITROPHENOL	Not detected	ug/kg	2350	SW846-8270C	9/12/01 18:39	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2,6-DINITROTOLUENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
FLUORANTHENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
FLUORENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
HEXACHLOROBENZENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
HEXACHLOROETHANE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
ISOPHORONE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	2350	SW846-8270C	9/12/01 18:39	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2-METHYL-PHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
4-METHYL-PHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
NAPHTHALENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
NITROBENZENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2-NITROPHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
4-NITROPHENOL	Not detected	ug/kg	2350	SW846-8270C	9/12/01 18:39	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	2350	SW846-8270C	9/12/01 18:39	HWC
PHENANTHRENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
PHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
PYRENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	470	SW846-8270C	9/12/01 18:39	HWC



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-1 @ 12'
Prism Sample ID: AC18512

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 14:35

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
SW846-9071 TPH OIL AND GREASE RE	140	mg/kg	50	SW846-9071	9/25/01 09:30	DMM

Sample Comments:

This report is a revision and supersedes our original laboratory report dated 9/18/01.

Angela D. Overcash, V.P. Laboratory Services



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-1 @ 16'

Prism Sample ID: AC18513

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 14:42

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/13/01 16:00	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 14:22	KC
OIL AND GREASE	130	mg/kg	50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	Less than	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	89	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
SW846-9071 TPH OIL AND GREASE RE	Less than	mg/kg	50	SW846-9071	9/25/01 09:30	DMM

Sample Comments:

This report is a revision and supersedes our original laboratory report dated 9/17/01.

Angela D. Overcash, V.P. Laboratory Services



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Customer Project ID: OW (NLTC)

Customer Sample ID: TP-2 @ 0'-10'

Prism Sample ID: AC18514

Login Group: 3316H10 Sanford, NC 27330

Sample Collection Date/Time: 8/31/01 14:55
Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT		REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TICs BY SEMIVOLATILE GC/MS 625/8270 Tentatively Ident	ified Compo	unds (10-large	est TICs):	625/8270	9/12/01 21:41	HWC
<identification class=""></identification>		losest Spectr		<est. conc.=""></est.>		
Unknown aliphatic hydrocar Unknown aliphatic hydrocar Unknown aliphatic hydrocar Unknown aliphatic hydrocar Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown	rbon (Urbon (Urb	inknown) iolecular sulf- inknown)		570 ug/kg 730 ug/kg 750 ug/kg 930 ug/kg 790 ug/kg 630 ug/kg 790 ug/kg 710 ug/kg 1000 ug/kg 790 ug/kg		
TPH - DIESEL RANGE	81	mg/kg	10	8015MOD/3550	9/13/01 18:09	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 14:59	KC
BENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
BROMOFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:13	MP
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:13	MP
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:13	MP
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:13	MP



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Customer Project ID: OW (NLTC)

Customer Sample ID: TP-2 @ 0'-10'

Prism Sample ID: AC18514

Sanford, NC 27330 Login Group: 3316H10 Sample Collection Date/Time: 8/31/01

mple Collection Date/Time: 8/31/01 14:55
Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
METHYLENE CHLORIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 18:13	MP
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
STYRENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
TOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Customer Project ID: OW (NLTC)

Customer Sample ID: TP-2 @ 0'-10'

Prism Sample ID: AC18514

Login Group: 3316H10

Sanford, NC 27330

Sample Collection Date/Time: 8/31/01 14:55

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:13	MP
TOTAL XYLENES	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:13	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:13	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:13	MP
ACETONE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 18:13	MP
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 18:13	MP
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:13	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:13	MP
IPE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
MTBE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:13	MP
SURR:DIBROMOFLUOROMETHANE	99	%	70-130	8260B/5030	9/11/01 18:13	MP
SURR:TOLUENE-D8	101	%	70-130	8260B/5030	9/11/01 18:13	MP
SURR:BROMOFLUOROBENZENE	121	%	70-130	8260B/5030	9/11/01 18:13	MP
M 10 M 10 W 10 M 10 10 10						
OIL AND GREASE	140	mg/kg	[*] 50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	Less than	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
METALS DIGESTION METHOD 3050	Completed			SW846-3050	9/10/01 12:15	LC2
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
PREP. METHOD 3550	Completed			SW846-3550B	9/7/01 15:00	JMV
LEAD, TOTAL	1.5	mg/kg	1.0	SW846-6010B	9/11/01 22:34	MSC



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-2 @ 0'-10'
Prism Sample ID: AC18514

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 14:55 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CHROMIUM, TOTAL	46	mg/kg	1.0	SW846-6010B	9/11/01 22:34	MSC
ACENAPHTHENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
ACENAPHTHYLENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BENZO(A)PYRENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
2-CHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
CHRYSENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
DIBENZOFURAN	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	9/12/01 21:41	HWC



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-2 @ 0'-10'
Prism Sample ID: AC18514

Login Group: 3316H10 Sample Collection Date/Time: 8/31/01 14

Sample Collection Date/Time: 8/31/01 14:55
Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

2,4-DINITROPHENOL Not detected ug/kg 1900 SW846-8270C 9/12/01 21:41 HWC 2,4-DINITROTOLUENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 2,6-DINITROTOLUENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 2,6-DINITROTOLUENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC DI-N-OCTYLPHTHALATE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 5-LUORANTHENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 5-LUORANTHENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 5-LUORENE Not detected ug/kg 380 SW846-	YST
2,6-DINITROTOLUENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC DI-N-OCTYLPHTHALATE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC FLUORANTHENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC FLUORENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC FLUORENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC HEXACHLOROBENZENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC HEXACHLOROBUTADIENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC HEXACHLOROCYCLOPENTADIENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC INDENO(1,2,3-CD)PYRENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC ISOPHORONE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 2-METHYL-4,6-DINITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 2-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-NITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-NITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-NITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC 4-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWC	/C
DI-N-OCTYLPHTHALATE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG FLUORANTHENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG FLUORENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG HEXACHLOROBENZENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG HEXACHLOROBUTADIENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG HEXACHLOROCYCLOPENTADIENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG INDENO(1,2,3-CD)PYRENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG ISOPHORONE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG 2-METHYL-4,6-DINITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG 2-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9	/C
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4-METHYL-PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 NAPHTHALENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 NITROBENZENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 2-NITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 N-NITROPHENOL Not detected ug/kg 1900 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE	٧C
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NITROBENZENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 2-NITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 4-NITROPHENOL Not detected ug/kg 1900 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	٧C
2-NITROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0 4-NITROPHENOL Not detected ug/kg 1900 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	VC
4-NITROPHENOL Not detected ug/kg 1900 SW846-8270C 9/12/01 21:41 HW0 N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	VC
N-NITROSODIPHENYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HWG	٧C
	VC
NAME	VC
N-NITROSODI-N-PROPYLAMINE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	VC
PENTACHLOROPHENOL Not detected ug/kg 1900 SW846-8270C 9/12/01 21:41 HW0	٧C
PHENANTHRENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	٧C
PHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	٧C
PYRENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	VC
1,2,4-TRICHLOROBENZENE Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	VC
2,4,5-TRICHLOROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW0	vc
2,4,6-TRICHLOROPHENOL Not detected ug/kg 380 SW846-8270C 9/12/01 21:41 HW6	VC



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Patterson Exploration Services

Customer Project ID: OW (NLTC)

Russ Patterson

Customer Sample ID: TP-2 @ 0'-10'

Prism Sample ID: AC18514

1907 Boone Trail Rd. Prism Sample ID: AC18514
Login Group: 3316H10

Sanford, NC 27330

Sample Collection Date/Time: 8/31/01 14:55

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
SW846-9071 TPH OIL AND GREASE RE	Less than	mg/kg	50	SW846-9071	9/25/01 09:30	DMM

Sample Comments:

This report is a revision and supersedes our previous report dated 9/18/01.

Angela D. Overcash, V.P. Laboratory Services

Sanford, NC 27330



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID:

Login Group:

Customer Project ID:

Customer Sample ID:

Prism Sample ID:

AC18515

3316H10

Sample Collection Date/Time: 8/31/01 15:00 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TICs BY SEMIVOLATILE GC/MS 625/8270 Tentatively Ident	tified Compo	ınds (10-la	argest TICs)	625/8270 :	9/13/01 17:06	HWC
<identification class=""></identification>		_	ctral Fit>	<est. conc.=""></est.>		
None detected	32288232 22 :		=======	==========		
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/13/01 16:43	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 15:36	KC
BENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
BROMOFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:57	MP
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:57	MP
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:57	MP
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:57	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP



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Patterson Exploration Services Russ Patterson

1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: OW (NLTC) Customer Sample ID: TP-2 @ 17' Prism Sample ID: AC18515

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:00 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
METHYLENE CHLORIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 18:57	MP
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
STYRENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
TOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP

Sanford, NC 27330



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID: AC18515

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:00

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:57	MP
TOTAL XYLENES	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:57	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5030	9/11/01 18:57	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:57	MP
ACETONE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 18:57	MP
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 18:57	MP
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:57	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 18:57	MP
IPE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
MTBE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 18:57	MP
SURR:DIBROMOFLUOROMETHANE	99	%	70-130	8260B/5030	9/11/01 18:57	MP
SURR:TOLUENE-D8	99	%	70-130	8260B/5030	9/11/01 18:57	MP
SURR:BROMOFLUOROBENZENE	109	%	70-130	8260B/5030	9/11/01 18:57	MP
OIL AND GREASE	120	mg/kg	50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	Less than	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	83	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
PREP. METHOD 3550	Completed			SW846-3550B	9/7/01 15:00	JMV
ACENAPHTHENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
ACENAPHTHYLENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
ANTHRACENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BENZO(A)PYRENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-2 @ 17'
Prism Sample ID: AC18515
Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:00 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2-CHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
CHRYSENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
DIBENZOFURAN	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2,4-DINITROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/13/01 17:06	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2,6-DINITROTOLUENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
FLUORANTHENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
FLUORENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
HEXACHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC

Sanford, NC 27330



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Patterson Exploration Services
Russ Patterson
1907 Boone Trail Rd.

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-2 @ 17'
Prism Sample ID: AC18515

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:00 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
HEXACHLOROETHANE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
ISOPHORONE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/13/01 17:06	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2-METHYL-PHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
4-METHYL-PHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
NAPHTHALENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
NITROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2-NITROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
4-NITROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/13/01 17:06	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/13/01 17:06	HWC
PHENANTHRENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
PHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
PYRENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/13/01 17:06	HWC
SW846-9071 TPH OIL AND GREASE RE	Less than	mg/kg	50	SW846-9071	9/25/01 09:30	DMM



Full Service Analytical & Environmental Solutions

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC)

Customer Sample ID: TP-2 @ 17'

Prism Sample ID: AC18515

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01

15:00

Lab Submittal Date/Time: 9/5/01

15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST

Sample Comments:

This report is a revision and supersedes our original laboratory report dated 9/17/01.

Angela D. Overcash, V.P. Laboratory Services



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Prism Sample ID:

Customer Project ID:

Customer Sample ID:

Prism Sample ID:

AC18516

AC18516

AC18516

Sanford, NC 27330
Sample Collection Date/Time: 8/31/01 15:05
Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TICs BY SEMIVOLATILE GC/MS 625/8270 Tentatively Ident	cified Compor	ınds (10-l	argest TICs)	625/8270 :	9/12/01 17:07	HWC
<identification class=""></identification>		-	ctral Fit>	<est. conc.=""></est.>		
None detected				=========		
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/13/01 17:25	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 16:13	KC
BENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
BROMOFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 19:41	MP
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 19:41	MP
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 19:41	MP
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 19:41	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP



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Customer Project ID: OW (NLTC)
Customer Sample ID: TP-2 @ 20'

Prism Sample ID: AC18516 Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:05 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
METHYLENE CHLORIDE ,	Not detected	ug/kg	120.0	8260B/5030	9/11/01 19:41	MP
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
STYRENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
TOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP



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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-2 @ 20'
Prism Sample ID: AC18516
Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:05 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 19:41	MP
TOTAL XYLENES	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 19:41	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5030	9/11/01 19:41	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 19:41	MP
ACETONE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 19:41	MP
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 19:41	MP
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 19:41	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 19:41	MP
IPE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
MTBE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 19:41	MP
SURR:DIBROMOFLUOROMETHANE	99	%	70-130	8260B/5030	9/11/01 19:41	MP
SURR:TOLUENE-D8	99	%	70-130	8260B/5030	9/11/01 19:41	MP
SURR:BROMOFLUOROBENZENE	116	%	70-130	8260B/5030	9/11/01 19:41	MP
OIL AND GREASE	160	mg/kg	50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	780	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
PREP. METHOD 3550	Completed			SW846-3550B	9/7/01 15:00	JMV
ACENAPHTHENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
ACENAPHTHYLENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
ANTHRACENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BENZO(A)PYRENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: OW (NLTC) Customer Sample ID: TP-2 @ 20' Prism Sample ID: AC18516

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:05 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2-CHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
CHRYSENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
DIBENZOFURAN	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2,4-DINITROPHENOL	Not detected	ug/kg	2050	SW846-8270C	9/12/01 17:07	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2,6-DINITROTOLUENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
FLUORANTHENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
FLUORENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
HEXACHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC



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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-2 @ 20'
Prism Sample ID: AC18516
Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:05 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1 AMINETER	INCOOLI	ONTO	CIIVII I	ILLI LILLIOL	OTARTED	ANALIGI
HEXACHLOROETHANE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
ISOPHORONE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	2050	SW846-8270C	9/12/01 17:07	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2-METHYL-PHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
4-METHYL-PHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
NAPHTHALENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
NITROBENZENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2-NITROPHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
4-NITROPHENOL	Not detected	ug/kg	2050	SW846-8270C	9/12/01 17:07	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HMC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	2050	SW846-8270C	9/12/01 17:07	HWC
PHENANTHRENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
PHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
PYRENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	9/12/01 17:07	HWC
SW846-9071 TPH OIL AND GREASE RE	1100	mg/kg	50	SW846-9071	9/25/01 09:30	DMM



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC) Customer Sample ID: TP-2 @ 20'

Prism Sample ID: AC18516

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:05 15:30

Lab Submittal Date/Time: 9/5/01

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
ILOI	IEOI		KEPOKTING	METHOD		
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STADTED	ΤΩΥΙΔΙΑΔ
PAINAMETER	KEGOLI	UNITO	LIIVII I	IVEL PIVEIAGE	SIMILIE	711/71/101

Sample Comments:

This report is a revision and supersedes our original laboratory report dated 9/17/01.

Angela D. Overcash, V.P. Laboratory Services



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 0'-6'

Prism Sample ID: AC18517

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:22

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST
TPH - DIESEL RANGE	37	mg/kg	10	8015MOD/3550	9/13/01 19:58	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 16:50	KC
OIL AND GREASE	1400	mg/kg	50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	Less than	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	89	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
SW846-9071 TPH OIL AND GREASE RE	61	mg/kg	50	SW846-9071	9/25/01 09:30	DMM

Sample Comments:

Analysis note for DRO: The chromatographic peak pattern represents compounds with molecular weights greater than #2 fuel oil.

This report is a revision and supersedes our original laboratory report dated 9/17/01.

Angela D. Overcash, V.P. Laboratory Services



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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Customer Project ID: OW (NLTC)

Customer Sample ID: TP-3 @ 7'-14'

Prism Sample ID: AC18518

Sanford, NC 27330 Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:28
Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TICs BY SEMIVOLATILE GC/MS 625/8270 Tentatively Ident	cified Compo	ınds (10-l	argest TICs)	625/8270	9/12/01 20:56	HWC
<identification class=""></identification>			ectral Fit>	<est. conc.=""></est.>		
Unknown		olecular S	Sulfur)	1100 ug/kg		
TPH - DIESEL RANGE	27	mg/kg	10	8015MOD/3550	9/14/01 07:29	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 17:27	KC
BENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
BROMOFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 20:25	MP
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 20:25	MP
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 20:25	MP
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 20:25	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 7'-14'
Prism Sample ID: AC18518
Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:28 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
METHYLENE CHLORIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 20:25	MP
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
STYRENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
TOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 7'-14'
Prism Sample ID: AC18518

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:28 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 20:25	MP
TOTAL XYLENES	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 20:25	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5030	9/11/01 20:25	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 20:25	MP
ACETONE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 20:25	MP
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 20:25	MP
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 20:25	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 20:25	MP
IPE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
MTBE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 20:25	MP
SURR:DIBROMOFLUOROMETHANE	95	%	70-130	8260B/5030	9/11/01 20:25	MP
SURR:TOLUENE-D8	101	%	70-130	8260B/5030	9/11/01 20:25	MP
SURR:BROMOFLUOROBENZENE	118	%	70-130	8260B/5030	9/11/01 20:25	MP
OIL AND GREASE	220	mg/kg	50	9071	9/13/01 10:00	GRR
OIL & GREASE, HYDROCARBONS	Less than	mg/kg	50	9071/silica gel	9/25/01 09:30	GRR
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
METALS DIGESTION METHOD 3050	Completed			SW846-3050	9/10/01 12:15	LC2
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
PREP. METHOD 3550	Completed			SW846-3550B	9/7/01 15:00	JMV
LEAD, TOTAL	Less than	mg/kg	1.0	SW846-6010B	9/11/01 22:39	MSC
CHROMIUM, TOTAL	35	mg/kg	1.0	SW846-6010B	9/11/01 22:39	MSC
ACENAPHTHENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
ACENAPHTHYLENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
ANTHRACENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 7'-14'
Prism Sample ID: AC18518
Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:28 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BENZO(K)FLUORANTHENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BENZO(A)PYRENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2-CHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
CHRYSENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
DIBENZOFURAN	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2,4-DINITROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/12/01 20:56	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2,6-DINITROTOLUENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
FLUORANTHENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
FLUORENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 7'-14'
Prism Sample ID: AC18518

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:28 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
HEXACHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
HEXACHLOROETHANE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
ISOPHORONE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/12/01 20:56	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2-METHYL-PHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
4-METHYL-PHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
NAPHTHALENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
NITROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2-NITROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
4-NITROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/12/01 20:56	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	2000	SW846-8270C	9/12/01 20:56	HWC
PHENANTHRENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
PHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
PYRENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	400	SW846-8270C	9/12/01 20:56	HWC
SW846-9071 TPH OIL AND GREASE RE	90	mg/kg	50	SW846-9071	9/25/01 09:30	DMM



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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 7'-14'

Prism Sample ID: AC18518

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:28
Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TECT	TECT		REPORTING	METHOD	DATE/TIME	
TEST	IESI		KEFOKTING	METHOD		
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	CTADTED	ANALYST
PARAMETER	KESULI	UNITO	LIIVII I		SIANIED	
				•		

Sample Comments:

This report is a revision and supersedes our previous report dated 9/18/01.

Angela D. Overcash, V.P. Laboratory Services



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 17'
Prism Sample ID: AC18519

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:38 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TICs BY SEMIVOLATILE GC/MS 625/8270 Tentatively Ident	cified Compo	ınds (10-1	largest TICs)	625/8270 :	9/12/01 14:44	HWC
<identification class=""></identification>		-	ectral Fit>	<est. conc.=""></est.>		
None detected	======	=======================================		========		
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/13/01 14:33	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 19:18	кс
BENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
BROMOFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 21:09	MP
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 21:09	MP
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 21:09	MP
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 21:09	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP



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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC) Customer Sample ID: TP-3 @ 17' Prism Sample ID: AC18519

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:38 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
METHYLENE CHLORIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 21:09	MP
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
STYRENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
TOLUENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP



Full Service Analytical & Environmental Solutions

10/3/01

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Patterson Exploration Services
Russ Patterson

1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 17'
Prism Sample ID: AC18519

Login Group: 3316H10
Sample Collection Date/Time: 8/31/01 15:38

Lab Submittal Date/Time: 8/31/01 15:38

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5030	9/11/01 21:09	MP
TOTAL XYLENES	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 21:09	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5030	9/11/01 21:09	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5030	9/11/01 21:09	MP
ACETONE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 21:09	MP
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5030	9/11/01 21:09	MP
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 21:09	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5030	9/11/01 21:09	MP
IPE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
MTBE	Not detected	ug/kg	6.0	8260B/5030	9/11/01 21:09	MP
SURR:DIBROMOFLUOROMETHANE	98	%	70-130	8260B/5030	9/11/01 21:09	MP
SURR:TOLUENE-D8	97	%	70-130	8260B/5030	9/11/01 21:09	MP
SURR:BROMOFLUOROBENZENE	111	%	70-130	8260B/5030	9/11/01 21:09	MP
OIL AND GREASE	120	mg/kg	50	9071	9/13/01 15:30	GRR
OIL & GREASE, HYDROCARBONS	230	mg/kg	50	9071/silica gel	9/25/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	86	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
PREP. METHOD 3550	Completed			SW846-3550B	9/7/01 15:00	JMV
ACENAPHTHENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
ACENAPHTHYLENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
ANTHRACENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BENZO(A)PYRENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC



Full Service Analytical & Environmental Solutions

10/3/01

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Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 17'
Prism Sample ID: AC18519

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:38 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2-CHLOROPHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
CHRYSENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
DIBENZOFURAN	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2,4-DINITROPHENOL	Not detected	ug/kg	1800	SW846-8270C	9/12/01 14:44	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2,6-DINITROTOLUENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
FLUORANTHENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
FLUORENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
HEXACHLOROBENZENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC



Full Service Analytical & Environmental Solutions

10/3/01

Patterson Exploration Services Russ Patterson 1907 Boone Trail Rd. Sanford, NC 27330 Page 38 of 40

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-3 @ 17'
Prism Sample ID: AC18519

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:38 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
HEXACHLOROETHANE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
ISOPHORONE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	1800	SW846-8270C	9/12/01 14:44	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2-METHYL-PHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
4-METHYL-PHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
NAPHTHALENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
NITROBENZENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2-NITROPHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
4-NITROPHENOL	Not detected	ug/kg	1800	SW846-8270C	9/12/01 14:44	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	1800	SW846-8270C	9/12/01 14:44	HWC
PHENANTHRENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
PHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
PYRENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	360	SW846-8270C	9/12/01 14:44	HWC
AP 400 AD 400 AD 400 AD 400 AD 400						
SW846-9071 TPH OIL AND GREASE RE	280	mg/kg	50	SW846-9071	9/25/01 17:00	GRR

Lab Report



Full Service Analytical & Environmental Solutions

10/3/01

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Patterson Exploration Services

Russ Patterson

1907 Boone Trail Rd.

Sanford, NC 27330

Customer Project ID: OW (NLTC)

Customer Sample ID: TP-3 @ 17'

Prism Sample ID: AC18519

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:38

Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST	TEST		REPORTING	METHOD	DATE/TIME	
PARAMETER	RESULT	UNITS	LIMIT	REFERENCE	STARTED	ANALYST

Sample Comments:

This report is a revision and supersedes our original laboratory report dated 9/17/01.

Angela D. Overcash, V.P. Laboratory Services

Lab Report



10/3/01

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Patterson Exploration Services

Russ Patterson 1907 Boone Trail Rd.

Sanford, NC 27330

1907 Boone Trail Rd.

Customer Project ID: OW (NLTC)
Customer Sample ID: TP-4 @ 7'

Prism Sample ID: AC18520

Login Group: 3316H10

Sample Collection Date/Time: 8/31/01 15:55 Lab Submittal Date/Time: 9/5/01 15:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	9/13/01 15:17	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	9/6/01 19:55	KC
OIL AND GREASE	77	mg/kg	50	9071	9/13/01 15:30	GRR
OIL & GREASE, HYDROCARBONS	190	mg/kg	50	9071/silica gel	9/25/01 17:00	GRR
CALCULATIONS BASED ON DRY WT.	90	% DRY WT.	0.01	SM 2540 G	9/10/01 17:00	JLW
PREP. METHOD 3550	Completed			SW846-3550	9/10/01 10:51	JMK
SW846-9071 TPH OIL AND GREASE RE	260	mg/kg	50	SW846-9071	9/25/01 17:00	GRR

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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FINAL REPORT COPY



N.C. LAB CERTIFICATION # 457

P.O. BOX 3008 • SANFORD, N.C. 27331-3008 TELEPHONE: (919) 774-3770 FAX: (919) 774-3510

----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Care	olina
Client: Hanson	
Date Collected: 08/06/01	Collected By: O.F. Patterson III
Date Received: 08/06/01	Date Extracted: 08/07/01
Matrix: SOIL	Analysis Date: 08/07/01

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0800101	S2/W7/E4	9071	Grease & Oil	2102	5.0
0800201	W5/6-S5/6	9071	Grease & Oil	560	5.0



----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Ca	rolina
Client: Hanson	
Date Collected: 08/06/01	Collected By: O.F. Patterson III
Date Received: 08/06/01	Date Extracted: 08/07/01
Matrix: SOIL	Analysis Date: 08/08/01

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0800201	W5/6-S5/6	3550/8015M	TPHD	10	5.0
		BQL = Belov	w Quantitation 1	Limit	



No

Type of Sample:														
Ground Water Surface Water Waste Water Soil	Solid WasteSolid WasteSludgeOther			Sar	oford :: (91	EARCE Post Office, North C 9) 774-3	ce Box 3 Carolina 2 770 Fa	008 27331 x: (9)	3008 19) 774-				of Shipmen 15 Cac	t: plov wasar
CLIENT: HANSON						AN	ÀLYSES				PXS JOB NO.:	080	1050	
CLIENT PHONE NUMBER:	3402645				1						SITE:		ASPA	dit
COLLECTOR'S NAME:	Orta	5	2	7.7	7						LOCATION:	CHAI	DEL H	(1)
FIELD PXS LAB ID # ID #	TIME COLLECTED	DATE COLLECTED	90	MI	HUI						Temperature	40		Residual Chlorine
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Canary: Lab Copy

Pink: Client Copy

JPC Form #35778A



----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Caroli	ina
Client: Hanson	
Date Collected: 08/08/01	Collected By: O.F. Patterson III
Date Received: 08/08/01	Date Extracted: 08/09/01
Matrix: SOIL	Analysis Date: 08/09/01

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0800301	East2/South1	9071	Grease & Oil	BQL	5.0
0800401	East2/South2	9071	Grease & Oil	BQL	5.0



N.C. LAB CERTIFICATION # 457

P.O. BOX 3008 • SANFORD, N.C. 27331-3008 TELEPHONE: (919) 774-3770 FAX: (919) 774-3510

----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201				
Location: Chapel Hill, North Carolina					
Client: Hanson					
Date Collected: 08/08/01	Collected By: O.F. Patterson III				
Date Received: 08/08/01	Date Extracted: 08/09/01				
Matrix: SOIL	Analysis Date: 08/09/01				
Analysis Performed By: Dwayne Phillip	os estados est				

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0800301	East2/South1	3550/8015M	TPHD	39	5.0
0800401	East2/South2	3550/8015M	TPHD	28	5.0



NE

Type of Sample: Ground Water Surface Water Waste Water Soil	_Solid Waste _Hazardous Waste _Sludge _Other _	e		Sanford one: (91	EARCH Post Office North Co. 9) 774-37	e Box 30 arolina 27 770 Fax	08 7331-300 : (919) 7	8		Method of Shipme PXS Com 10	nt: poler e/wrten
CLIENT: HANSO	4		نع		AN	ALYSES			PXS JOB NO.:	08020)/
CLIENT PHONE NUMBER:	380-26	15	23						SITE:	LTC ASP	HALT PLANT
COLLECTOR'S NAME:	FAR	,	10						LOCATION:	CHARE H.	16-
FIELD PXSLAB ID # ID#		DATE COLLECTED	01/5						Temperature	pН	Residual Chlorine
EAST 2/South 19	3,450	8-8-01	7							REMARKS	
EAST 2/ Saith 1-	31500	8-8-01									
0800301	/ 										
0800401											
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JPC Form #35778A



-----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Card	olina
Client: Hanson	
Date Collected: 08/09/01	Collected By: O.F. Patterson III
Date Received: 08/09/01	Date Extracted: 08/10/01
Matrix: SOIL	Analysis Date: 08/10/01
Analysis Performed By: Dwayne I	Phillips

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0800501	LH-1	9071	Grease & Oil	BQL	5.0
0800601	LH-2	9071	Grease & Oil	BQL	5.0
0800701	LH-3	9071	Grease & Oil	BQL	5.0
0800801	LH-4	9071	Grease & Oil	BQL	5.0



----ANALYTICAL RESULTS-----

PXS#: 080201
Collected By: O.F. Patterson III
Date Extracted: 08/10/01
Analysis Date: 08/10/01 - 08/11/01

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0800501	LH-1	3550/8015M	TPHD	32	5.0
0800601	LH-2	3550/8015M	TPHD	55	5.0
0800701	LH-3	3550/8015M	TPHD	40	5.0
0800801	LH-4	3550/8015M	TPHD	47	5.0

BQL = **Below Quantitation Limit**

CHAIN of CUSTODY

Type of Sample:



			$\mathbf{P}_{\mathbf{z}}$	XS I	RES.	EARC	H LA	BORA	(OT	RIES			
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CLIENT: HAWSO	5N					A	NALYS	ËS			PXS JOB NO.:	00001	/
CLIENT PHONE NUMBER:	340-26	.15									SITE:	LTC ASP	HACT PLANT
COLLECTOR'S NAME:	OFFICE			9							LOCATION:	Chapel +	ill
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Pink: Client Copy



----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Carolina	
Client: Hanson	
Date Collected: 08/10/01	Collected By: O.F. Patterson III
Date Received: 08/10/01	Date Extracted: 08/13/01
Matrix: SOIL	Analysis Date: 08/13/01
Analysis Performed By: Dwayne Phillip	os

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0800901	SW-1	9071	Grease & Oil	BQL	5.0
0801001	SW-2	9071	Grease & Oil	BQL	5.0
0801101	SW-3	9071	Grease & Oil	BQL	5.0



PXS RESEARCH LABORATORIES



Ground Surface Waste V	Water	Solid Waste Hazardous Wa Sludge Other	ste	Tele		nford	, North (9) 774-3	ce Box 3 Carolina 2 770 Fa	27331 x: (9)					Method of S. Als C.	~	nt: Lev valu
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CLIENT PHO	ONE NUMBER:	380-20	bis									SITE	:	NICA	PH	KT PLANT
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FIELD ID#	PXS LAB ID #	TIME COLLECTED	DATE COLLECTED	9071	1/x	The						<u>Te</u>	mperature	<u>pH</u>		Residual Chlorine
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80-5	0801301	10:35														
5W-6	0801401	10:40														
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Type of Sample:

____ Ground Water

Canary: Lab Copy

Pink: Client Copy

JPC Form #35778A



N.C. LAB CERTIFICATION # 457

P.O. BOX 3008 • SANFORD, N.C. 27331-3008 TELEPHONE: (919) 774-3770 FAX: (919) 774-3510

-----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Carolina	
Client: Hanson	
Date Collected: 08/10/01	Collected By: O.F. Patterson III
Date Received: 08/10/01	Date Extracted: 08/11/01 - 08/13/01
Matrix: SOIL	Analysis Date: 08/11/01 - 08/13/01
Analysis Performed By: Dwayne Phillip	os

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0802101	B-2	9071	Grease & Oil	7	5.0
0802201	B-3	9071	Grease & Oil	35	5.0
0802301	B-4	9071	Grease & Oil	BQL	5.0
0802401	B-5	9071	Grease & Oil	BQL	5.0
0802501	B - 6	9071	Grease & Oil	77	5.0
0802601	В-7	9071	Grease & Oil	236	5.0
0802701	B-8	9071	Grease & Oil	96	5.0
0802801	B-9	9071	Grease & Oil	129	5.0
0802901	B-10	9071	Grease & Oil	BQL	5.0
0803001	B-11	9071	Grease & Oil	BQL	5.0
0803101	B-12	9071	Grease & Oil	BQL	5.0
0803201	B-13	9071	Grease & Oil	1118	5.0
0803301	B-14	9071	Grease & Oil	106	5.0
0803401	B-15	9071	Grease & Oil	82	5.0
0803501	B-16	9071	Grease & Oil	89	5.0
0803601	B-17	9071	Grease & Oil	37	5.0
0803701	B-18	9071	Grease & Oil	BQL	5.0
0803801	B-19	9071	Grease & Oil	565	5.0
0803901	B-20	9071	Grease & Oil	209	5.0
0804001	B-21	9071	Grease & Oil	954	5.0
0804101	B-22	9071	Grease & Oil	50	5.0

BQL = **Below Quantitation Limit**



N.C. LAB CERTIFICATION # 457

----ANALYTICAL RESULTS----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Car	olina
Client: Hanson	
Date Collected: 08/10/01	Collected By: O.F. Patterson III
Date Received: 08/10/01	Date Extracted: 08/11/01 - 08/12/01
Matrix: SOIL	Analysis Date: 08/12/01 - 08/14/01

PXS Lab ID#	Field ID#	Method #	Analysis Performed	Concentration mg/kg	Quantitation Limit mg/kg
0802101	B-2	3550/8015M	TPHD	22	5.0
0802201	B-3	3550/8015M	TPHD	BQL	5.0
0802301	B-4	3550/8015M	TPHD	32	5.0
0802401	B-5	3550/8015M	TPHD	12	5.0
0802501	B-6	3550/8015M	TPHD	10	5.0
0802601	B-7	3550/8015M	TPHD	772	5.0
0802701	B-8	3550/8015M	TPHD	178	5.0
0802801	B - 9	3550/8015M	TPHD	26	5.0
0802901	B-10	3550/8015M	TPHD	10	5.0
0803001	B-11	3550/8015M	TPHD	18	5,0
0803101	B-12	3550/8015M	TPHD	116	5.0



PXS RESEARCH LABORATORIES



Ground Water Solid Waste Surface Water Hazardous Waste Waste Water Sludge Soil Other			Telep	hone:	ord, North (919) 774-3	ice Box 3008 Carolina 2733 3770 Fax: (9	919) 774-3510)	Method of Shipment: PXS Cooler 1 Ce public						
CLIENT:	1/20,000			R. Proj.			IALYSES		PXS JOB NO.:	000701					
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CLIENT PHO	ONE NUMBER:	380-2	613		4				SITE:	LIC ASPAN					
COLLECTOR	R'S NAME:	OFPER	_	<u>``</u>	\$ -	\mathcal{Z}			LOCATION:	CHAPEL	HILL				
FIELD ID#	PXS LAB ID #	TIME COLLECTED	DATE COLLECTED	1206	TPAC	VFRD			Temperature	Нq	Residual Chlorine				
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B-2	08077 01	435							_ txo	QUARTON F	LOOK				
B-3	0802201	4:40							_ SAN	EXCOUNTION FLOOR SAMPLES - BIG PIT - AS ON 8-10-01 @ 4:30 p *B-1 Jor Broken					
B-4	0802301	4:45							he a	on 8-10-	01@				
B-5	0802401	4i50								4,300	2				
B-6	0802501	4355							*						
B-7	0802601	4:,58		/					B-1 J8	w Broken					
B-8	0802701	5:00													
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Type of Sample:

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Ground Water Surface Water Waste Water Soil		Sa	Inford, e: (91)	CARCH Post Offic North C 9) 774-3'	ce Box Carolina 770 F	3008 27331 ax: (9	-3008 19) 77		Method of Shipment: PKS Cooler Neefwater PXS JOB NO.: 080701					
CLIENT: HANS	·	1		· · · · · ·		AN	ALYSE	S			<u></u>		•	1
CLIENT PHONE NUMBER:	700		~	_								SITE:	LTC ASPA	
COLLECTOR'S NAME:	OFFAT	TERSON III	Ľ	13	江							LOCATION:	Chapel Ho	:U
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Date:

JPC Form #35778A

Time:



N.C. LAB CERTIFICATION # 457

P.O. BOX 3008 • SANFORD, N.C. 27331-3008 TELEPHONE: (919) 774-3770 FAX: (919) 774-3510

----ANALYTICAL RESULTS-----

Site: NLTC Asphalt	PXS#: 080201
Location: Chapel Hill, North Carolina	
Client: Hanson	
Date Collected: 08/13/01	Collected By: O.F. Patterson III
Date Received: 08/13/01	Date Extracted: 08/14/01
Matrix: SOIL	Analysis Date: 08/14/01
Analysis Performed By: Dwayne Phillip	os

PXS Lab ID#	Field ID#	Field ID# Method #		Concentration mg/kg	Quantitation Limit mg/kg
0809101	TP-1	9071	Grease & Oil	168	5.0
0809201	TP-2	9071	Grease & Oil	19425	5.0
0809301	TP-3	9071	Grease & Oil	20468	5.0
0809401	LH-1	9071	Grease & Oil	BQL	5.0
0809501	LH-2	9071	Grease & Oil	22	5.0
0809601	LH-3	9071	Grease & Oil	49	5.0
0809701	LH-4	9071	Grease & Oil	49	5.0

BQL = Below Quantitation Limit

CHAIN of CUSTODY

PXS RESEARCH LABORATORIES

Post Office Box 3008

Type of Sample:

_Ground Water

Solid Waste

Waste W	Surface WaterHazardous WasteSludge					-	Carolina 2733 3770 Fax: <i>(9</i>			PXS Cooper 1 ce/water					
Soil	_	Other				Page	of			ŭ	te				
CLIENT:	HANG	on				A	NALYSES		PXS JOB NO.:	060201	-				
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Pink: Client Copy

Method of Shipment:



Type of Sample:

Ground Water Solid Waste Surface Water Hazardous Waste Waste Water Sludge Soil Other					PXS RESEARCH LABORATORIES Post Office Box 3008 Sanford, North Carolina 27331-3008 Telephone: (919) 774-3770 Fax: (919) 774-3510 Page of								Method of Shipment: TXS Goder 1c-e/water							
CLIENT:	USON						Tiple I	ANA	LYSE	S paration			话,	PXS	JOB N	Ov	06	0201		
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	S LAB D#	TIME COLLECTED	DATE COLLECTED	16	HAL	TPAD								<u>Te</u>	mpera	ture		<u>pH</u>	Residual Chlo	<u>orine</u>
LH-3 080	9601	1:16	8-13-01	1	1	1,										a	RE	MARKS		
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JPC Form #35778A

White: Original Lab Copy

The degradation of hydrocarbons is actually an oxidation-reduction reaction. Enzymes (biochemical catalysts), produced by indigenous microorganisms, allow the conversion of hydrocarbon to carbon dioxide and water, a process known as *mineralization*. In the reaction, hydrocarbon is oxidized (donate electrons) and a compound is reduced (accepts electrons). Energy liberated from the reaction is used by the microorganism for various cellular activities such as synthesis of new cell components and motility. The following paragraphs, in general terms, address various hydrocarbon degradation processes.

Aerobic bacteria use molecular oxygen as electron acceptors. Oxygen is the preferred electron acceptor because microorganisms gain more energy from the reaction. The complete degradation of many hydrocarbons requires approximately three parts oxygen to 1 part hydrocarbon. The extent of aerobic biodegradation in groundwater will be controlled by the amount of contamination released, the rate of oxygen transfer from the unsaturated zone and the background oxygen content of the aquifer. In many cases, the major limitation of aerobic degradation in the subsurface is the low solubility of oxygen in water.

Upon depletion of the dissolved oxygen within a groundwater contaminant plume, microorganisms use other electron acceptors to complete the mineralization of hydrocarbons by a process termed "anaerobic degradation." Compounds typically utilized as electron acceptors after depletion of molecular oxygen include nitrate, ferric iron, and sulfate. The hydrocarbon degradation is an oxidation-reduction reaction where the hydrocarbon is oxidized and the electron acceptor is reduced. Microorganisms utilize the available compounds that liberate the most energy when degrading hydrocarbons. Oxidation-reduction potential (Eh) of groundwater is a measure of electron activity and is an indicator of the relative tendency of a solution to accept or transfer electrons. Oxidation-reduction reactions in groundwater generally follow in strict succession with those reactions that yield the most energy occurring first at the highest value of Eh.

Simple field measurements and laboratory analyses can be employed to determine if anaerobic degradation of the groundwater contaminant plume is occurring at a given facility. Examples of field indicators are relative concentrations of electron acceptors, such as molecular oxygen, nitrate, sulfate, and ferric iron, within and outside the plume, and relative values of other groundwater parameters such as pH and Eh. Probable indicators of anaerobic degradation include a reduction in Eh, pH, and nitrate and sulfate concentrations and an increase in ferrous iron (Fe2+) and alkalinity within the contaminant plume.

Destructive Attenuation Mechanisms

Biodegradation of TCE has been shown to occur by reductive chlorination and cometabolism reactions. Biodegradation of DCE has been shown to occur by reductive chlorination and direct biological oxidation. The following paragraphs briefly describe each biodegradation mechanism.

Reductive Dechlorination (Halorespiration)

This process results in the chlorinated solvent acting as an electron acceptor which allows a chlorine atom on the molecule to be replaced by a hydrogen atom. As such the chlorinated solvent is reduced. The reaction is biologically mediated and the microorganism uses the substrate for energy and growth. The following conditions must be present for halorespiration to occur: 1) the subsurface conditions must be anaerobic and have low oxidation-reduction potential, 2) the chlorinated solvents must be amenable to halorespiration, and 3) there must be an adequate supply of fermentation substrates for production of dissolved hydrogen. Sites where this biodegradation mechanism is occurring will demonstrate an accumulation of daughter products.

The following paragraph shows the biodegradation pathway for the chlorinated alkenes and alkanes identified at the site.

Chlorinated Alkenes:

 $PCE \rightarrow TCE \rightarrow DCE \rightarrow Vinyl Chloride (VC) \rightarrow Ethene \rightarrow Ethane$

Chlorinated Alkanes:

1,1,1-TCA \rightarrow 1,1-DCA \rightarrow Chloroethane

Review of the groundwater analytical data collected from the site demonstrates that aerobic conditions are present in the subsurface, and that no significant accumulation of daughter products, i.e. vinyl chloride or chloroethane, are present at the site. Although the presence of 1,1-DCE could possibly be the result of previous biodegradation of TCE, the data does not suggest that current conditions are appropriate for continued degradation via this process

Cometabolism

This process results in degradation of the chlorinated solvent by an enzyme cofactor that is produced by a microorganism that is degrading another compound (i.e. BTEX, etc.). The organism receives no benefit from the degradation of the chlorinated solvent. This process has been documented for chlorinated solvents in aerobic environments. Chlorinated solvents are only partially transformed during this reaction and additional degradation mechanisms are typically required to complete the reaction.

Aerobic cometabolism of ethenes may be characterized by a loss of contaminant mass and the presence of intermediate degradation products. Due to the need for a substrate that may be present in limited concentrations, coupled with the nature of the reactions, the rates of cometabolism are relatively slow.

Abiotic Destructive Attenuation Mechanisms

Although, difficult to quantify, these reactions have the potential to occur in subsurface environments. The following paragraphs briefly describe the two most prevelant abiotic reactions documented for degradation of chlorinated solvents in the subsurface.

Hydrolysis

Hydrolysis is a reaction where by an organic molecule (i.e. chlorinated solvent) reacts with water and a halogen substituent is replaced with a hydroxyl group. The substitution typically occurs at the halogenated carbon. The addition of a hydroxyl group to a chlorinated solvent will make the daughter product more susceptible to biodegradation.

Dehydrohalogenation

Dehydrohalogenation is a reaction whereby a halogen is removed from a carbon atom followed by the removal of hydrogen from a separate carbon atom. The combined reaction produces an alkene. This reaction has been documented for the transformation of 1,1,1-TCA to 1,1-DCE (Vogel and McCarty).

Non-Destructive Attenuation Mechanisms

The following paragraphs discuss non-destructive attenuation mechanisms for the groundwater contaminant plume.

Advection

Advection is the transport of solutes by the bulk movement of groundwater. Solute transport by advection alone results in a distinct solute concentration front. Immediately ahead of the front, the solute concentration is equal to the background concentration. At the solute front, the concentration is equal to the initial contaminant concentration at the point of release. In reality, the advancing solute spreads out due to the processes of dispersion and diffusion and is retarded by sorption and biodegradation.

Hydrodynamic Dispersion

Hydrodynamic dispersion is a process whereby a contaminant spreads out in directions longitudinal and transverse to the direction of plume migration. Dispersion of organic solutes in an aquifer is an important consideration when modeling remediation by natural attenuation. Dispersion of a contaminant dilutes the concentrations of the contaminant and introduces the contaminant into pristine

portions of the aquifer where it may commingle with electron acceptors cross gradient to the direction of groundwater flow. Two very different processes cause hydrodynamic dispersion; mechanical dispersion and diffusion.

Mechanical dispersion is mixing that occurs as a result of local variations in velocity as a contaminant migrates through a porous medium. The contaminant takes a tortuous path with some of the groundwater flowing slowly through large pores and other more quickly through small pores. This variation in average velocity causes dispersion of the contaminant. Larger geological features such as faults, dipping strata, folds, or contacts will also create inhomogeniety and introduce dispersion on the megascopic scale.

Molecular diffusion occurs when concentrations cause solutes to migrate from zones of high contaminant concentrations to low contaminant concentrations even in the absence of groundwater flow. Molecular diffusion is only important at low-groundwater velocities.

Sorption

Certain organic contaminants, such as chlorinated solvents and aromatic hydrocarbons (benzene, etc.), are removed from solution by sorption onto the aquifer matrix. Sorption is the process whereby dissolved contaminants partition from the groundwater and adhere to the particles comprising the aquifer. The reaction is reversible and at a given solute concentration, a given portion of the solute is partitioning to the aquifer matrix and some portion is also desorbing and re-entering solution. Sorption does not permanently remove the solute mass from groundwater, it merely retards the migration. The contribution of sorption in fractured bedrock aquifer systems is not considered significant.

Volatilization

Volatilization results in the partitioning of a contaminant between the liquid phase and the gaseous phase. Factors that affect the volatilization of contaminants from groundwater into soil gas include the contaminant concentration, the change in contaminant concentration with depth, the Henry's Law constant, and diffusion coefficient of the compound, sorption and temperature of the groundwater. The physiochemical properties of chlorinated solvents typically give them low Henry's Law constants, which determines the tendency of a contaminant to volatilize from groundwater into soil gas, with the exception of vinyl chloride. Values of the Henry's Law concentration for TCE is 0.0091 atm-m3/mol and 1,1-DCE is .018 atm-m3/mol, while vinyl chloride is 1.22 atm-m3/mol. Consequently, volatilization of the chlorinated solvents in the groundwater system is not expected to contribute significantly to the attenuation of the chlorinated solvents in groundwater.

Classification of Chlorinated Solvent Plume

Wiedemeir, et al. (1998) established a classification system for chlorinated solvent plumes based on the amount and origin of fermentation substrates that produce the hydrogen that drives halorespiration. Three types of groundwater environments and associated plume behavior are described below:

Type 1 Environment: Anaerobic Systems Due to Anthropogenic Carbon

Sources of anthropogenic carbon include fuel hydrocarbons, landfill leachate, or other organics. The carbon source exerts a tremendous electron-acceptor demand on the system and results in an anaerobic condition in the subsurface. In this environment, the anthropogenic carbon is fermented to produce hydrogen, which drives halorespiration.

Type 2 Environment: Anaerobic Systems Due to Naturally Occurring Carbon

Sources of naturally occurring carbon occur in hydrogeology settings within coastal or stream or river deposits, and shallow aquifers with recharge zones in organic rich environments such as swamps. The carbon source exerts an electron-acceptor demand on the system and results in an anaerobic condition in the subsurface. In this environment, the naturally occurring carbon is fermented to produce hydrogen, which drives halorespiration. The rate of degradation in this setting, however, is much slower than the Type I Environment.

Type 3 Environment: Aerobic Systems Due to No Fermentation Substrates

This environment is characterized by a well-oxygenated groundwater system with little or no organic matter. Concentrations of dissolved oxygen are typically greater than 1 mg/l. In such an environment, halorespiration will not occur and chlorinated solvents such as PCE, TCE, and TCA will not biodegrade. The most significant attenuation mechanisms for PCE and TCE will be advection, hydrodynamic dispersion, and sorption. Vinyl chloride and DCE can possibly be rapidly oxidized under these conditions. The Type 3 environment is typically found in crystalline igneous and metamorphic rock.

Requirements For Disposal By Containment & Treatment for Non-Hazardous Petroleum-Contaminated Soil (Per 15A NCAC Subchapter 2H .0200)

Containment and treatment of petroleum contaminated soil is allowed under the provisions of 15A NCAC 2H 0.0200. Excavated soil is placed on engineered pad and bioremediated using various techniques including augmentation with additional carbon source, microbial populations adapted to degrading petroleum motor fuels, etc. Periodic aeration of the contaminated soil is required to complete the remediation. Monitoring and reporting is required to document the progress of the soil remediation. The following paragraphs summarize requirements of the permitting process.

Requires Non-Discharge Permit

Submit Application GW-70 & \$400 processing fee

General Requirements:

- The site must be secured to prevent unauthorized access.
- The soil shall be placed within a contained area on a synthetic liner (10.9 cm/sec) or 1 ft. clay layer (10.6 cm/sec) compacted to 95% proctor.
- May require leachate collection system.
- If disturb greater than 1 acre of land, requires an Erosion Control Plan approved by the Regional Engineer of the Division of Land Quality.
- Compliance with buffer requirements of NCAC 2H .0219 (j).

50 ft from property line 100 ft from any surface water body 100 ft from any water supply well

- Site should have depth to seasonal high watertable greater than 3 feet below the waste zone.
- Overall slope of site should not exceed 5%.

Post Disposal Maintenance:

- Incorporate nutrients / microbial strains into contaminated soil.
- Re-till periodically to promote aeration.
- Repeat steps as necessary.

Monitoring:

Soil

- Collect one composite soil sample for analyses per 200 cubic yards of contaminated soil once every 6 months.
- Analytical method requirements based on source of contaminants.
- Report results to Regional Office within 30 days of collection.
- Analyses of soil beneath containment pad may be necessary prior to closing the soil remediation site.